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Section 1
Table 1

Annual Supply/Disposition Summary of Total Energy in the United States
(Quadrillion BTU)

SUPPLY/DISPOSITION	1989	1990	1995	2000	2005	2010
Production						
Petroleum	18.4	17.6	16.7	14.0	12.5	12.4
Natural Gas(a)	17.9	18.1	18.9	20.3	20.6	19.9
Coal	21.4	22.5	22.7	24.0	27.2	31.6
Nuclear	5.7	6.1	6.2	6.5	6.7	6.7
Renewable Energy(b)	6.4	6.8	7.7	8.9	10.3	11.6
Total Production	69.8	71.2	72.3	73.8	77.3	82.2
Net Imports						
Petroleum (Incl. SPR)	15.2	15.4	17.1	22.4	25.6	27.4
Natural Gas	1.3	1.4	2.4	2.6	3.0	3.2
Coal/Other (-indicates exports)(c)	-2.4	-2.5	-2.3	-2.7	-3.9	-5.0
Total Net Imports	14.2	14.3	17.2	22.4	24.7	25.6
Consumption						
Petroleum Products	34.2	33.5	34.2	36.7	38.4	39.9
Natural Gas	19.3	19.1	20.6	22.3	23.0	22.4
Coal	18.9	18.9	19.9	20.7	22.3	25.4
Nuclear Power	5.7	6.1	6.2	6.5	6.7	6.7
Renewable Energy/Other(d)	6.5	6.8	8.1	9.4	11.0	12.5
Total Consumption	84.7	84.4	89.0	95.6	101.4	106.9
Discrepancy(e)	0.3	-0.4	-0.2	-0.3	-0.5	-0.6
Prices (1989 $ per unit)						
World Oil Price ($/bbl)(f)	18.81	22.00	24.00	25.70	31.00	34.20
Nat Gas Wellhead Price ($/Mcf)	1.76	1.77	2.12	2.61	4.09	5.04
Avg Coal Minemouth Price ($/ton)	22.70	22.18	24.69	27.12	29.99	31.64

(a) Dry natural gas.
(b) Includes utility and nonutility generation of hydroelectric power, geothermal, wood, waste, wind, photovoltaic and solar thermal sources for electricity generation.
(c) Includes coke, net coal coke imports, and net electricity imports (fuel input equivalent).
(d) Same as footnote (b), plus net electricity imports and net coal coke imports.
(e) Balancing item that includes stock changes, gains, losses, and unaccounted for supply.
(f) Represents the cost of imported crude oil to U.S. refiners

United States Consumption of Energy by Source and End-Use Sector
(Quadrillion BTU)

SECTOR AND FUEL	1989	1990	1995	2000	2005	2010
Residential	10.58	10.24	10.81	10.99	11.30	11.66
Distillate and LPG	1.52	1.48	1.33	1.15	1.01	0.89
Natural Gas	4.91	4.51	4.86	4.86	4.81	4.69
Other residential(a)	0.16	0.17	0.15	0.13	0.12	0.11
Electricity	3.09	3.17	3.45	3.64	3.83	4.02
Renewables	0.89	0.92	1.03	1.21	1.54	1.95
Commercial	6.76	6.70	7.22	7.66	8.19	8.80
Distillate	0.57	0.56	0.53	0.49	0.45	0.42
Natural Gas	2.80	2.65	2.85	2.93	2.97	2.98
Other Commerical(b)	0.63	0.65	0.64	0.67	0.78	0.95
Electricity	2.77	2.85	3.20	3.56	3.98	4.46
Industrial	24.37	24.54	25.59	27.58	28.63	29.90
Distillate	1.21	1.02	1.32	1.52	1.66	1.79
Liquefied Petroleum Gas	1.68	1.58	1.77	1.99	2.20	2.39
Petrochemical Feedstocks	0.93	0.97	1.07	1.24	1.39	1.53
Residual Fuel	0.64	0.61	0.66	0.71	0.75	0.79
Natural Gas	8.14	8.39	8.53	8.94	8.50	8.18
Coal	2.83	2.70	2.73	2.71	2.71	2.82
Electricity	3.16	3.18	3.43	3.97	4.55	5.08
Renewables	1.91	2.04	2.35	2.68	3.04	3.43
Other(c)	3.85	4.04	3.74	3.81	3.84	3.89
Transportation	22.19	21.99	22.50	24.06	25.67	27.18
Motor Gasoline	13.75	13.56	13.51	14.06	14.63	15.08
Distillate	3.72	3.71	4.05	4.44	4.87	5.28
Jet Fuel	3.06	3.09	3.31	3.74	4.13	4.57
Other Transportation(d)	0.90	0.89	0.96	1.06	1.20	1.34
Residual Fuel	0.77	0.74	0.68	0.76	0.84	0.91
Electric Utilities	29.82	30.14	33.02	36.53	40.03	42.93
Petroleum	1.68	1.30	1.48	2.05	1.96	1.70
Natural Gas	2.87	2.93	3.70	4.82	5.87	5.72
Coal	15.96	16.06	17.04	17.94	19.57	22.60
Nuclear	5.69	6.14	6.21	6.47	6.70	6.67
Renewable Energy/Other(e)	3.62	3.71	4.58	5.25	5.92	6.25

(a) Includes kerosene and steam coal.
(b) Includes kerosene, motor gasoline, residual fuel and renewables.
(c) Includes lubricants, waxes, kerosene, motor gasoline and hydropower.
(d) Includes liquefied petroleum gas, lubricants, waxes, electricity, kerosene, natural gas and renewables.
(e) Includes renewable facilities such as hydropower, geothermal power, wood, waste, solar power and wind power. Also includes net electricity imports.

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1991.

Section I
Table 3

Selected United States Economic, Demographic, and Energy Indicators

Year	Gross National Product (Billion $ 1982)	Population (Millions)	Gross Energy Input(a) (Quadrillion Btu)	Gross Energy Per Dollar of 1982 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	1,066.7	144.1	33.0	30.9	229.0
1948	1,108.7	146.6	33.9	30.6	231.2
1949	1,109.0	149.2	31.5	28.4	211.1
1950	1,203.7	152.3	34.0	28.2	223.2
1951	1,328.2	154.9	36.8	27.7	237.6
1952	1,380.0	157.6	36.5	26.4	231.7
1953	1,435.3	160.2	37.6	26.2	234.7
1954	1,416.2	163.0	36.3	25.6	222.7
1955	1,494.9	165.9	39.7	26.6	239.3
1956	1,525.6	168.9	41.7	27.3	246.9
1957	1,555.1	172.0	41.7	26.8	242.2
1958	1,539.2	174.9	41.7	27.1	238.4
1959	1,629.1	177.8	43.1	26.5	242.4
1960	1,665.3	180.7	44.6	26.8	246.8
1961	1,708.7	183.8	45.3	26.5	246.5
1962	1,799.4	186.5	47.4	26.3	254.1
1963	1,873.3	189.2	49.3	26.3	260.5
1964	1,973.3	191.8	51.2	25.9	266.9
1965	2,087.6	194.3	53.3	25.5	274.3
1966	2,208.3	196.6	56.4	25.5	286.9
1967	2,271.4	198.7	58.3	25.7	293.4
1968	2,365.6	200.7	61.7	26.1	307.4
1969	2,423.3	202.7	65.0	26.5	320.7
1970	2,416.2	205.1	67.1	27.8	327.2
1971	2,484.8	207.7	68.3	27.5	328.8
1972	2,608.5	209.9	71.6	27.4	341.1
1973	2,744.1	212.0	74.6	27.2	351.9
1974	2,729.3	213.9	72.7	26.6	339.9
1975	2,695.0	216.0	70.5	26.2	326.4
1976	2,826.7	218.4	74.3	26.3	340.2
1977	2,958.6	220.2	76.2	25.8	346.1
1978	3,115.2	222.6	78.0	25.0	350.4
1979	3,192.4	225.6	78.8	24.7	349.3
1980	3,187.1	227.7	75.9	23.8	333.3
1981	3,248.8	229.3	73.9	22.7	322.3
1982	3,166.0	231.5	70.8	22.4	305.8
1983	3,279.0	234.0	70.5	21.5	301.3
1984	3,501.4	236.2	74.0	21.1	313.3
1985	3,618.7	238.7	73.9	20.4	309.6
1986	3,717.9	241.1	74.2	20.0	307.8
1987	3,853.7	246.3	76.8	19.9	311.8
1988	4,024.4	247.4	80.2	19.9	324.2
1989	4,144.1	249.9	81.3	19.6	325.3
1990	4,156.0	248.7	81.5	19.6	327.7

See notes and sources at end of table

Selected United States Economic, Demographic, and Energy Indicators

(a) Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal) including imports of their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

SOURCE: 1947-1972: U.S. Bureau of Mines, Press Release, March 14, 1977
1973-1990: U.S. Department of Commerce, U.S. Bureau of Census, Current Population Reports.
U.S. Energy Information Administration, Monthly Energy Review.

United States Petroleum Supply/Disposition Balance
(Millions of Barrels Per Day)

SUPPLY/DISPOSITION	1989	1990	1995	2000	2005	2010
World Oil Price(a) (1989$/bbl.)	18.81	22.00	24.00	25.70	31.00	34.20
Production	9.88	9.51	9.16	7.95	7.26	7.15
Crude and Condensate	7.61	7.23	6.79	5.36	4.59	4.42
Alaska	1.87	1.75	1.32	0.90	0.67	0.78
Lower 48	5.74	5.48	5.47	4.45	3.92	3.64
Natural Gas Plant Liquids	1.55	1.54	1.55	1.67	1.68	1.62
Other(b)	0.72	0.74	0.83	0.93	0.99	1.11
Net Imports (incl. SPR)	7.20	7.28	8.10	10.51	12.11	12.98
Crude	5.70	5.90	6.25	8.54	9.18	9.21
Refined products	1.50	1.38	1.85	1.96	2.93	3.77
Net Storage Withdrawals(c)						
Crude and Products (excl. SPR)	0.12	-0.16	-0.02	-0.03	-0.02	-0.01
SPR Fill Rate(-)	-0.06	-0.02	-0.05	-0.05	0.00	0.00
Petroleum Product Supplied	17.33	16.95	17.34	18.53	19.49	20.27
Motor Gasoline	7.33	7.23	7.22	7.50	7.83	8.08
Jet fuel	1.49	1.51	1.61	1.82	2.01	2.22
Distillate Fuel Oil	3.14	3.02	3.25	3.49	3.70	3.87
Residual Fuel Oil	1.41	1.23	1.29	1.53	1.53	1.47
Other(d)	3.96	3.97	3.97	4.20	4.41	4.62

(a) The cost of imported crude oil to U.S. refiners.
(b) Includes refinery processing gain, and other hydrocarbons and alcohol.
(c) A nagative (-) result represents an increase to inventories and a decrease to total supply.
(d) Includes crude oil supplied as product, unfinished oils, and all other finished petroleum products not listed here.

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1991.

United States Price of Energy by Source and End-Use Sector
(1989 Dollars per Million BTU)

SECTOR AND FUEL	1989	1990	1995	2000	2005	2010
Residential						
Distillate	6.73	7.64	7.32	7.66	8.65	9.24
Liquefied Petroleum	10.60	9.56	10.00	10.44	11.73	12.52
Natural Gas	5.72	5.69	6.06	6.54	7.98	8.90
Electricity	24.10	23.74	24.41	23.77	24.74	25.44
Commercial						
Distillate	4.75	5.65	5.33	5.69	6.69	7.29
Natural Gas	4.80	4.77	5.20	5.68	7.12	8.04
Electricity	22.91	22.49	22.65	21.55	21.97	22.44
Industrial						
Distillate	4.74	5.60	5.27	5.61	6.61	7.20
Liquefied Petroleum	4.37	5.76	6.43	6.84	8.11	8.88
Residual Fuel	2.60	2.97	3.90	4.15	4.95	5.38
Natural Gas	2.99	2.92	3.31	3.79	5.24	6.16
Steam Coal	1.64	1.63	1.78	1.89	2.07	2.24
Metallurgical Coal	1.96	1.92	2.09	2.25	2.48	2.62
Electricity	15.28	15.01	15.40	15.32	16.18	16.61
Transportation						
Distillate	7.59	8.36	9.02	9.36	10.35	10.94
Jet Fuel	4.57	5.84	5.51	5.85	6.88	7.48
Motor Gasoline	8.55	9.51	9.72	10.24	11.53	12.27
Residual Fuel	2.50	3.05	3.72	3.98	4.72	5.13
Electric Utilities						
Coal	1.52	1.51	1.66	1.79	1.94	2.09
Heavy Oil	2.95	3.30	4.32	4.55	5.33	5.91
Natural Gas	2.45	2.23	2.72	3.17	4.59	5.48

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1991.

United States Total Gross Consumption of Energy Resources by Major Sources(a)
(Trillion Btu)

Year	Coal(b)	Petroleum(c)	Natural Gas Dry	Hydro-power(d)	Nuclear Power(d)	Total Consumption(e)
1947	15,824	11,367	4,518	1,326	-	33,035
1948	14,897	12,557	5,033	1,393	-	33,880
1949	12,631	12,119	5,289	1,449	-	31,488
1950	12,913	13,489	6,150	1,440	-	33,992
1951	13,225	14,848	7,248	1,454	-	36,775
1952	11,868	15,334	7,760	1,496	-	36,458
1953	11,893	16,098	8,156	1,439	-	37,586
1954	10,195	16,132	8,548	1,388	-	36,263
1955	11,540	17,524	9,232	1,407	-	39,703
1956	11,752	18,627	9,834	1,487	-	41,700
1957	11,168	18,570	10,416	1,551	1	41,706
1958	9,849	19,214	10,995	1,636	2	41,696
1959	9,810	19,747	11,990	1,591	2	43,140
1960	10,140	20,067	12,699	1,657	6	44,569
1961	9,906	20,487	13,228	1,680	18	45,319
1962	10,189	21,267	14,121	1,821	24	47,422
1963	10,714	21,950	14,843	1,767	34	49,308
1964	11,264	22,386	15,648	1,907	35	51,240
1965	11,908	23,242	16,097	2,058	38	53,343
1966	12,495	24,395	17,392	2,073	57	56,412
1967	12,256	25,335	18,250	2,344	80	58,265
1968	12,659	27,052	19,580	2,342	130	61,763
1969	12,733	28,421	21,020	2,659	146	64,979
1970	12,698	29,537	22,029	2,650	229	67,143
1971	12,043	30,570	22,469	2,862	404	68,348
1972	12,461	32,966	22,699	2,929	577	71,643
1973	12,971	34,840	22,512	3,010	910	74,282
1974	12,663	33,455	21,732	3,309	1,272	72,543
1975	12,663	32,731	19,948	3,219	1,900	70,546
1976	13,584	35,175	20,345	3,065	2,111	74,362
1977	13,922	37,122	19,931	2,515	2,702	76,288
1978	13,765	37,965	20,000	3,142	3,024	78,089
1979	15,039	37,123	20,666	3,141	2,776	78,898
1980	15,423	34,202	20,394	3,118	2,739	75,955
1981	15,907	31,931	19,928	3,105	3,008	73,990
1982	15,322	30,231	18,505	3,572	3,131	70,848
1983	15,894	30,054	17,357	3,899	3,203	70,524
1984	17,070	31,051	18,507	3,757	3,553	74,101
1985	17,478	30,922	17,834	3,363	4,149	73,945
1986	17,262	32,196	16,708	3,385	4,471	74,237
1987	18,008	32,865	17,745	3,068	4,906	76,845
1988	18,846	34,228	18,551	2,639	5,661	80,200
1989	18,944	34,211	19,382	2,884	5,677	81,346
1990	19,060	33,644	19,414	2,942	6,185	81,453

See notes and sources at end of table

United States Total Gross Consumption of Energy Resources by Major Sources(a)
(Trillion Btu)

(a) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.
(b) Includes anthracite, bituminous, lignite coal, and imported coke.
(c) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.
(d) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.
(e) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West: "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Department of the Interior: U.S. Bureau of Mines, Press Release, February 1977
1973-1990: U.S. Energy Information Administration, Monthly Energy Review, March 1991

United States Total Production of Energy Resources by Major Source
(Trillion Btu)

Year	Coal(a)	Petroleum	Natural Gas(b)	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs(c)
1947	17,975	10,771	5,012	1,296	--	35,054
1948	17,158	11,717	5,615	1,369	--	35,859
1949	12,557	10,683	5,911	1,425	--	30,576
1950	14,647	11,449	6,841	1,415	--	34,352
1951	15,066	13,037	8,106	1,424	--	37,633
1952	13,262	13,282	8,705	1,466	--	36,715
1953	12,767	13,671	9,116	1,413	--	36,967
1954	11,001	13,427	9,488	1,360	--	35,276
1955	12,745	14,445	10,532	1,360	--	39,082
1956	13,747	15,344	11,252	1,435	--	41,778
1957	13,444	15,346	11,885	1,422	1	42,098
1958	11,201	14,154	12,244	1,592	2	39,193
1959(d)	11,105	14,662	13,361	1,551	2	40,681
1960	11,140	14,664	14,135	1,608	6	41,553
1961	10,751	15,185	14,691	1,656	18	42,301
1962	11,211	15,495	15,365	1,816	24	43,911
1963	12,176	15,741	16,271	1,768	34	45,990
1964	12,854	15,691	17,138	1,886	35	47,604
1965	13,395	15,930	17,652	2,059	38	49,074
1966	13,836	16,925	18,984	2,062	57	51,864
1967	14,215	18,100	20,087	2,347	80	54,829
1968	13,955	18,593	21,548	2,349	130	56,575
1969	14,223	18,886	22,838	2,648	146	58,741
1970	15,067	20,401	24,154	2,630	229	62,481
1971	13,607	20,033	24,805	2,825	404	61,674
1972	14,500	20,041	24,792	2,866	576	62,775
1973	13,993	19,493	24,756	2,861	910	62,059
1974	14,074	18,575	23,681	3,177	1,272	60,836
1975	14,990	17,729	22,014	3,155	1,900	59,860
1976	15,654	17,262	21,807	2,976	2,111	59,892
1977	15,755	17,454	21,892	2,333	2,702	60,219
1978	14,910	18,434	21,730	2,937	3,024	61,103
1979	17,539	18,104	22,362	2,931	2,776	63,801
1980	18,597	18,249	22,162	2,900	2,739	64,761
1981	18,376	18,146	22,006	2,758	3,008	64,421
1982	18,639	18,309	20,446	3,266	3,131	63,898
1983	17,246	18,392	18,714	3,527	3,203	61,215
1984	19,719	18,848	20,205	3,348	3,553	65,847
1985	19,325	18,992	19,147	2,939	4,149	64,765
1986	19,510	18,376	18,620	3,017	4,471	64,225
1987	20,142	17,675	19,264	2,593	4,906	64,823
1988	20,737	17,279	19,745	2,314	5,661	65,971
1989	21,345	16,117	19,938	2,771	5,677	66,065
1990	22,610	15,456	20,214	2,924	6,185	67,592

See notes and sources at end of table

United States Total Production of Energy Resources by Major Source
(Trillion Btu)

(a) Includes anthracite, bituminous and lignite coals.
(b) Includes natural gas plant liquids
(c) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.
(d) Includes Alaska and Hawaii.

SOURCE: 1947-1969: U.S. Department of Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1972: U.S. Bureau of Mines, Press Release
1973-1990: U.S. Energy Information Administration, Monthly Energy Review

Total United States Gross Consumption by Consuming Sector(a)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electricity Generation	Miscellaneous and Un-Accounted for	Total Consumption(b)
1947	6,775	12,795	8,791	4,264	410	33,035
1948	7,039	12,322	8,781	4,725	1,014	33,880
1949	6,884	11,369	8,075	4,616	544	31,488
1950	7,593	12,325	8,616	4,981	477	33,992
1951	7,857	13,698	9,206	5,281	733	36,775
1952	7,979	13,098	9,168	5,518	695	36,458
1953	7,757	13,752	9,205	5,891	981	37,586
1954	7,968	12,515	9,113	5,940	727	36,263
1955	8,595	13,991	9,826	6,595	696	39,703
1956	8,963	14,588	10,132	7,082	935	41,700
1957	8,685	14,503	10,229	7,330	959	41,706
1958	9,467	13,507	10,275	7,317	1,130	41,696
1959	9,711	14,040	10,387	7,873	1,129	43,140
1960	10,174	14,642	10,818	8,263	672	44,569
1961	10,373	14,631	10,986	8,537	792	45,319
1962	10,948	15,249	11,415	9,093	717	47,422
1963	11,016	15,908	11,962	9,683	739	49,308
1964	11,143	16,698	12,261	10,375	763	51,240
1965	11,830	17,176	12,714	11,075	548	53,343
1966	12,388	18,028	13,345	12,054	597	56,412
1967	13,015	18,230	14,015	12,728	278	58,265
1968	13,109	19,363	15,156	13,892	243	61,763
1969	13,606	20,107	15,784	15,254	228	64,979
1970	13,988	20,225	16,473	16,242	215	67,143
1971	14,549	19,299	17,076	17,222	205	68,348
1972	14,917	19,835	18,081	18,543	233	71,609
1973	12,271	23,593	18,567	19,853	NA	74,282
1974	11,771	22,602	18,082	20,022	NA	72,543
1975	11,596	20,392	18,209	20,350	NA	70,546
1976	12,250	21,465	19,066	21,574	NA	74,362
1977	11,873	21,912	19,784	22,713	NA	76,288
1978	11,907	21,875	20,580	23,724	NA	78,089
1979	11,525	22,806	20,437	24,128	NA	78,898
1980	10,720	21,072	19,658	24,505	NA	75,955
1981	10,043	19,717	19,469	24,760	NA	73,990
1982	10,064	17,473	19,032	24,270	NA	70,848
1983	9,716	16,751	19,094	24,956	NA	70,524
1984	10,085	18,209	19,827	25,977	NA	74,101
1985	9,826	17,573	20,063	26,484	NA	73,945
1986	9,576	17,290	20,729	26,642	NA	74,237
1987	9,735	18,250	21,341	27,551	NA	76,845
1988	10,372	19,056	22,141	28,626	NA	80,200
1989	10,492	19,210	22,335	29,301	NA	81,346

See notes and sources at end of table

Total United States Gross Consumption by Consuming Sector(a)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electricity Generation	Miscellaneous and Un-Accounted for	Total Consumption(b)
1990	9,939	19,921	22,009	29,578	NA	81,453

(a) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.
(b) Data may not add to totals because of independent rounding and consumption of geothermal power and electricity produced from wood, waste and wind energy.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000", December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1990: U.S. Energy Information Administration, Monthly Energy Review

United States
Demand for Energy Inputs in the Industrial Sector

Year	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs(d)
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	273,403	7,298	418.3	2,490	2,905,571	3,007	135	459	13,254
1948	244,214	6,516	427.0	2,530	3,164,928	3,276	147	500	12,822
1949	208,919	5,571	415.6	2,466	3,219,197	3,332	142	485	11,854
1950	223,507	5,957	442.4	2,641	3,601,757	3,727	164	559	12,884
1951	238,776	6,403	516.1	3,044	4,107,117	4,251	192	656	14,354
1952	211,146	5,673	515.0	3,034	4,242,986	4,391	200	682	13,780
1953	226,865	6,105	524.7	3,093	4,389,128	4,554	224	765	14,517
1954	179,148	4,860	529.8	3,118	4,383,197	4,537	235	802	13,317
1955	214,946	5,726	566.7	3,330	4,768,562	4,935	295	1,008	14,999
1956	217,810	5,805	626.6	3,688	4,922,139	5,095	326	1,113	15,701
1957	213,404	5,695	595.8	3,478	5,150,413	5,330	332	1,133	15,636
1958	175,600	4,675	570.3	3,292	5,352,294	5,540	323	1,102	14,609
1959	169,924	4,530	625.1	3,589	5,720,756	5,921	356	1,215	15,255
1960	175,225	4,673	643.9	3,682	6,074,114	6,287	383	1,306	15,948
1961	168,090	4,478	642.6	3,682	6,221,668	6,471	383	1,306	15,937
1962	169,995	4,527	678.8	3,880	6,579,008	6,842	411	1,402	16,651
1963	178,201	4,754	702.0	3,994	6,917,738	7,160	429	1,464	17,372
1964	189,561	5,063	744.6	4,184	7,198,706	7,451	453	1,544	18,242
1965	200,688	5,366	740.4	4,139	7,433,200	7,671	479	1,634	18,810
1966	204,945	5,472	781.0	4,353	7,948,486	8,203	524	1,788	19,816
1967	194,595	5,199	798.4	4,432	8,332,614	8,599	547	1,868	20,098
1968	191,602	5,124	897.2	4,965	8,987,095	9,274	599	2,044	21,407
1969	188,586	5,051	943.6	5,171	9,587,670	9,885	632	2,155	22,262
1970	186,637	5,002	940.4	5,061	9,856,844	10,161	648	2,210	22,434
1971	158,866	4,303	947.9	5,088	9,577,212	9,874	682	2,327	21,592
1972	160,624	4,275	1,058.2	5,643	9,622,659	9,882	741	2,528	22,328
1973	179,625	4,057	1,635.1	9,104	10,184,314	10,388	686	2,341	25,917
1974	172,621	3,870	1,570.6	8,694	9,768,555	10,003	685	2,337	24,994
1975	163,443	3,667	1,473.8	8,147	8,364,706	8,532	688	2,346	22,738
1976	162,494	3,661	1,626.9	9,010	8,597,645	8,761	754	2,573	24,038
1977	154,690	3,454	1,759.5	9,774	8,474,975	8,636	786	2,682	24,594
1978	149,232	3,314	1,776.9	9,867	8,404,528	8,539	809	2,761	24,636
1979	160,030	3,593	1,950.5	10,568	8,397,839	8,549	842	2,873	25,679
1980	139,048	3,155	1,771.8	9,525	8,197,267	8,394	815	2,781	23,853
1981	139,783	3,157	1,559.4	8,285	8,055,610	8,257	826	2,817	22,534
1982	112,364	2,552	1,480.9	7,794	6,935,673	7,116	745	2,542	20,015
1983	109,735	2,490	1,407.1	7,420	6,615,907	6,821	776	2,648	19,395
1984	126,070	2,842	1,502.7	7,894	7,232,039	7,449	838	2,859	21,065
1985	125,340	2,760	1,469.2	7,725	6,867,119	7,080	837	2,855	20,439
1986	119,065	2,643	1,492.1	7,953	6,504,373	6,693	831	2,834	20,139
1987	119,432	2,673	1,553.5	8,210	7,104,753	7,325	858	2,928	21,178

See notes and sources at end of table

Section I
Table 9a

United States
Demand for Energy Inputs in the Industrial Sector

Year	Coal(a) Thousand Short Tons	Coal(a) Trillion Btu	Petroleum(b) Million Barrels	Petroleum(b) Trillion Btu	Natural Gas Million Cubic Feet	Natural Gas Trillion Btu	Electricity Purchased(c) Billion Kilowatt-hours	Electricity Purchased(c) Trillion Btu	Total Energy Inputs(d) Trillion Btu
1988	126,476	2,828	1,598.9	8,463	7,476,190	7,693	897	3,059	22,115
1989	125,744	2,810	1,553.6	8,214	7,886,408	8,123	926	3,158	22,368
1990	122,659	2,751	1,551.7	8,488	8,393,204	8,645	938	3,200	23,121

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.
(d) Total includes small amounts of imported coke and hydro electric power.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1990: U.S. Energy Information Administration, Monthly Energy Review, March 1991

United States
Demand for Energy Inputs in the Household and Commercial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	128,657	3,399	385	2,251	1,087,000	1,125	115	391	7,148
1948	122,994	3,238	436	2,539	1,219,402	1,262	130	442	7,481
1949	114,639	3,025	426	2,472	1,340,362	1,387	143	488	7,372
1950	110,422	2,913	526	3,038	1,586,207	1,642	160	546	8,139
1951	100,057	2,648	552	3,202	1,939,034	2,007	180	615	8,471
1952	91,212	2,416	577	3,350	2,137,635	2,213	195	666	8,645
1953	77,976	2,072	585	3,391	2,216,153	2,294	215	733	8,490
1954	65,425	1,752	630	3,650	2,479,205	2,566	234	797	8,765
1955	66,039	1,745	692	4,001	2,753,171	2,849	250	854	9,449
1956	61,685	1,629	722	4,183	3,044,435	3,151	274	935	9,898
1957	46,382	1,225	703	4,069	3,276,185	3,391	299	1,019	9,704
1958	45,005	1,187	788	4,568	3,586,025	3,712	321	1,095	10,562
1959	36,700	969	818	4,718	3,887,708	4,024	353	1,203	10,914
1960	37,180	983	853	4,923	4,123,389	4,268	370	1,262	11,436
1961	32,805	868	872	5,028	4,325,427	4,477	406	1,385	11,758
1962	32,955	872	908	5,227	4,685,231	4,849	437	1,490	12,438
1963	27,603	731	915	5,258	4,856,804	5,027	482	1,645	12,661
1964	22,949	609	904	5,191	5,162,009	5,343	525	1,792	12,935
1965	25,676	678	978	5,635	5,346,450	5,517	571	1,948	13,778
1966	25,587	677	1,000	5,766	5,760,999	5,945	616	2,101	14,489
1967	22,134	585	1,079	6,206	6,029,855	6,223	661	2,257	15,271
1968	19,983	529	1,070	6,129	6,250,997	6,451	723	2,467	15,576
1969	16,875	447	1,100	6,269	6,682,804	6,890	807	2,752	16,358
1970	16,114	427	1,128	6,453	6,984,007	7,108	879	3,000	16,988
1971	15,201	406	1,125	6,430	7,480,667	7,713	940	3,209	17,758
1972	11,708	308	1,168	6,666	7,733,964	7,943	1,019	3,478	18,395
1973	10,210	254	815	4,391	7,476,470	7,626	1,024	3,495	15,766
1974	10,370	257	743	3,996	7,341,797	7,518	1,018	3,475	15,246
1975	8,446	209	710	3,805	7,432,352	7,581	1,056	3,604	15,200
1976	8,165	203	777	4,181	7,719,333	7,866	1,098	3,747	15,997
1977	8,299	205	781	4,206	7,321,884	7,461	1,159	3,955	15,828
1978	8,736	214	756	4,070	7,503,937	7,624	1,206	4,116	16,023
1979	7,594	187	630	3,448	7,751,473	7,891	1,226	4,184	15,709
1980	5,863	145	555	3,035	7,347,953	7,540	1,276	4,355	15,075
1981	6,825	167	487	2,634	7,065,366	7,243	1,318	4,497	14,540
1982	7,731	187	454	2,449	7,244,639	7,427	1,338	4,566	14,630
1983	7,979	192	473	2,498	6,813,773	7,025	1,372	4,680	14,396
1984	8,693	209	491	2,585	7,078,641	7,291	1,444	4,928	15,014
1985	7,572	176	495	2,573	6,865,179	7,078	1,483	5,061	14,888
1986	7,447	176	492	2,576	6,631,681	6,824	1,534	5,235	14,812
1987	6,922	162	499	2,618	6,744,908	6,954	1,595	5,443	15,178

See notes and sources at end of table

United States
Demand for Energy Inputs in the Household and Commercial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	7,127	168	516	2,693	7,300,292	7,512	1,678	5,724	16,096
1989	6,173	146	510	2,625	7,496,117	7,721	1,717	5,859	16,350
1990	6,448	152	485	2,499	7,075,728	7,288	1,763	6,017	15,956

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3412 Btu per kilowatt-hour.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000". December 1972
1970: U.S. Bureau of Mines, Minerals Yearbook 1972

United States
Demand for Energy Inputs in the Transportation Sector

		Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	1947	113,324	3,030	1,050.3	5,761	Neg.	--	8	29	8,820
1948	1948	98,295	2,624	1,126.6	6,157	Neg.	--	8	27	8,808
1949	1949	70,915	1,892	1,137.8	6,183	Neg.	--	7	25	8,100
1950	1950	63,783	1,701	1,248.8	6,785	125,546	130	7	24	8,640
1951	1951	56,903	1,525	1,377.5	7,482	192,496	199	7	23	9,229
1952	1952	40,428	1,086	1,451.3	7,868	207,207	214	6	22	9,190
1953	1953	30,074	809	1,511.5	8,158	230,314	238	6	20	9,225
1954	1954	19,060	516	1,551.4	8,358	230,615	239	6	18	9,131
1955	1955	17,429	464	1,691.4	9,109	245,246	253	6	19	9,845
1956	1956	14,187	378	1,756.2	9,448	295,972	306	5	17	10,149
1957	1957	10,126	270	1,832.0	9,649	299,235	310	4	15	10,244
1958	1958	5,015	133	1,825.1	9,819	312,221	323	5	16	10,291
1959	1959	3,861	102	1,849.4	9,923	349,348	362	5	17	10,404
1960	1960	3,294	87	1,934.1	10,372	347,075	359	5	18	10,836
1961	1961	770	21	1,971.9	10,575	377,607	390	6	19	11,005
1962	1962	687	18	2,051.3	11,001	382,496	396	5	18	11,433
1963	1963	670	18	2,146.7	11,506	423,783	436	6	19	11,981
1964	1964	711	19	2,198.9	11,791	435,570	451	6	20	12,281
1965	1965	655	18	2,271.9	12,179	500,524	517	5	18	12,732
1966	1966	609	16	2,382.6	12,777	535,353	552	5	16	13,361
1967	1967	467	13	2,497.1	13,408	575,752	594	5	17	14,032
1968	1968	417	11	2,703.8	14,535	590,965	610	5	18	15,174
1969	1969	313	8	2,815.8	15,125	630,962	651	5	17	15,801
1970	1970	298	8	2,923.8	15,720	772,166	745	5	16	16,489
1971	1971	207	6	3,035.1	16,304	742,592	766	5	17	17,093
1972	1972	163	4	3,217.5	17,290	766,156	787	5	17	18,098
1973	1973	112	3	3,305.1	17,831	728,431	743	3	8	18,585
1974	1974	38	2	3,220.1	17,399	668,945	685	3	9	18,095
1975	1975	0	1	3,266.7	17,614	583,333	595	3	10	18,219
1976	1976	0	0	3,430.2	18,506	548,577	559	3	10	19,076
1977	1977	0	0	3,563.1	19,241	532,875	543	3	10	19,794
1978	1978	0	0	3,708.5	20,041	530,512	539	3	9	20,589
1979	1979	0	0	3,652.4	19,825	601,179	612	3	10	20,447
1980	1980	0	0	3,494.1	19,008	634,766	650	3	11	19,669
1981	1981	0	0	3,463.0	18,811	641,951	658	3	11	19,480
1982	1982	0	0	3,397.3	18,420	596,491	612	3	11	19,043
1983	1983	0	0	3,433.6	18,593	489,817	505	3	11	19,109
1984	1984	0	0	3,555.7	19,286	529,126	545	4	12	19,843
1985	1985	0	0	3,601.4	19,534	503,395	519	4	13	20,067
1986	1986	0	0	3,726.3	20,215	484,937	499	4	13	20,728
1987	1987	0	0	3,829.0	20,780	518,914	535	4	13	21,328

See notes and sources at end of table

United States
Demand for Energy Inputs in the Transportation Sector

		Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	1988	0	0	3,961.3	21,510	614,189	632	4	14	22,155
1989	1989	0	0	3,991.0	21,687	630,097	649	4	14	22,350
1990	1990	0	0	3,937.1	21,406	585,437	603	4	14	22,022

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

SOURCE: 1947-1969: U.S. Department of the Interior. W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1990: Energy Information Administration, Monthly Energy Review, March 1991

United States
Demand for Energy Inputs for Electricity Generation by Utilities

	Coal(a)		Petroleum		Natural Gas		Hydropower(b)		Nuclear Power		Total Energ Inputs(c)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1947	89,531	2,084	75.5	468	373,037	386	84,981	1,326	--	--	4,264
1948	99,586	2,392	71.7	444	478,097	495	88,535	1,393	--	--	4,724
1949	83,964	2,021	92.7	577	550,121	569	96,361	1,449	--	--	4,616
1950	91,871	2,228	106.3	662	628,919	651	102,671	1,440	--	--	4,981
1951	105,768	2,537	80.1	499	763.898	791	106,554	1,454	--	--	5,281
1952	107,071	2,588	78.8	492	910,117	942	111,977	1,496	--	--	5,518
1953	115,883	2,805	92.3	577	1,034,272	1,070	111,625	1,439	--	--	5,891
1954	118,401	2,866	76.8	480	1,165,498	1,206	113,980	1,388	--	--	5,940
1955	143,759	3,482	81.9	512	1,153,280	1,194	120,304	1,407	--	--	6,595
1956	158,279	3,815	79.4	497	1,239,311	1,283	129,775	1,487	--	--	7,082
1957	160,761	3,881	81.9	512	1,338,079	1,385	136,959	1,551	10	1	7,330
1958	155,714	3,743	82.4	515	1,372,853	1,421	147,581	1,636	165	2	7,317
1959	168,427	4,050	87.2	546	1,627,097	1,684	145,002	1,591	188	2	7,873
1960	176,633	4,251	90.1	564	1,724,763	1,785	153,958	1,657	518	6	8,263
1961	182,138	4,374	92.1	577	1,825,341	1,889	157,754	1,680	1,692	17	8,537
1962	193,128	4,636	92.4	579	1,965,590	2,034	172,458	1,821	2,270	23	9,093
1963	211,193	5,065	95.7	600	2,142,930	2,218	168,573	1,767	3,212	33	9,683
1964	225,271	5,395	101.4	636	2,321,889	2,403	182,258	1,907	3,341	34	10,375
1965	244,887	5,843	118.6	744	2,318,253	2,392	196,843	2,058	3,657	38	11,075
1966	266,394	6,327	144.2	905	2,608,768	2,692	199,030	2,073	5,520	57	12,054
1967	273,970	6,457	161.3	1,013	2,746,352	2,834	224,650	2,344	7,655	80	12,728
1968	296,942	6,994	188.0	1,181	3,143,858	3,245	225,242	2,342	12,528	130	13,892
1969	310,310	7,227	259.8	1,628	3,486,391	3,594	254,540	2,659	13,928	146	15,254
1970	322,357	7,261	333.8	2,087	3,894,019	4,015	252,571	2,650	21,801	229	16,242
1971	327,926	7,330	407.1	2,543	3,992,983	4,117	269,899	2,828	37,899	404	17,222
1972	350,196	7,836	503.7	3,134	3,978,673	4,086	280,470	2,911	54,032	576	18,543
1973	388,194	8,658	562.9	3,515	3,660,156	3,748	286,361	2,975	83,463	910	19,853
1974	391,809	8,534	539.4	3,365	3,443,249	3,519	313,733	3,276	113,968	1,272	20,022
1975	405,970	8,786	506.6	3,166	3,157,895	3,240	306,266	3,187	172,523	1,900	20,350
1976	448,360	9,720	556.2	3,477	3,081,134	3,152	292,297	3,032	191,093	2,111	21,574
1977	477,125	10,262	624.3	3,901	3,191,448	3,284	237,853	2,482	250,905	2,702	22,713
1978	481,222	10,238	637.8	3,987	3,188,588	3,297	300,164	3,110	276,392	3,024	23,724
1979	527,055	11,260	524.6	3,283	3,490,821	3,613	300,106	3,107	255,171	2,776	24,128
1980	569,289	12,123	421.2	2,634	3,681,159	3,810	296,918	3,085	251,128	2,739	24,505
1981	596,775	12,583	351.9	2,202	3,640,580	3,768	293,887	3,072	272,711	3,008	24,760
1982	593,659	12,582	250.6	1,568	3,225,869	3,342	338,531	3,539	282,760	3,131	24,270
1983	625,231	13,213	246.8	1,544	2,910,680	2,998	367,490	3,866	293,718	3,203	24,956
1984	664,423	14,020	205.7	1,286	3,111,111	3,220	360,845	3,725	327,677	3,553	25,977
1985	693,831	14,542	174.5	1,090	3,044,316	3,160	322,081	3,330	383,705	4,149	26,484
1986	685,069	14,444	232.1	1,452	2,602,515	2,691	325,771	3,353	414,020	4,471	26,642
1987	725,183	15,173	201.2	1,257	2,843,992	2,935	296,001	3,035	445,271	4,906	27,551
1988	757,540	15,850	250.1	1,563	2,635,214	2,709	254,714	2,607	526,948	5,661	28,626

See notes and sources at end of table

United States
Demand for Energy Inputs for Electricity Generation by Utilities

Year	Coal(a)		Petroleum		Natural Gas		Hydropower(b)		Nuclear Power		Total Energ Inputs(c)
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1989	766,884	15,988	270.0	1,685	2,787,234	2,882	276,062	2,852	529,373	5,677	29,301
1990	771,497	16,159	200.3	1,251	2,776,596	2,871	281,677	2,910	576,744	6,185	29,578

(a) Includes anthracite, bituminous, and lignite coals
(b) Includes net inputs and negligible amount of hydropower generated by industrial establishments
(c) Total includes small amounts of geothermal power and electricity from wood and waste.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000"
December 1972
1970-1972: U.S. Bureau of Mines, Minerals Yearbook 1975
1973-1990: U.S. Energy Information Administration, Monthly Energy Review, March 1991

World Primary Energy Production(a)
(Quadrillion Btu)

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Canada	9.5	9.38	8.89	8.68	9.03	9.14	9.99	10.04	9.75	9.64	10.11	11.01
Mexico	1.87	2.15	2.44	2.74	3.14	3.76	4.51	5.8	6.78	7.82	7.7	7.88
United States	61.95	60.72	59.73	59.81	60.14	61.03	63.71	64.64	64.3	63.79	61.08	65.67
Total North America	73.32	72.25	71.06	71.22	72.31	73.93	78.22	80.48	80.83	81.25	78.9	84.56
Venezuela	8.13	7.29	5.9	5.79	5.69	5.52	6.04	5.71	5.58	5.22	4.99	5.02
Total Central & South America	12.85	12.09	10.62	10.67	10.88	11.19	12.23	12.15	12.13	12.04	12.21	13.1
France	1.78	1.82	1.88	1.71	2	2.02	2.03	2.26	2.65	2.62	2.97	3.37
West Germany	4.92	4.95	4.87	5.14	5.12	5.12	5.44	5.44	5.57	5.72	5.53	5.77
Italy	1.06	1.07	1.08	1.11	1.15	1.13	1.1	1.07	1.11	1.16	1.12	1.17
Netherlands	2.52	2.86	3.16	3.44	2.9	2.49	2.69	3.32	3.1	2.67	2.62	2.71
Norway	0.83	0.88	1.22	1.47	1.47	2.07	2.68	3.02	3.06	3.11	3.41	3.65
United Kingdom	4.66	4.47	4.97	5.39	6.58	7.19	8.24	8.4	8.71	9.49	9.92	8.78
Total Western Europe	19.58	20.01	21.36	22.34	23.93	24.81	27.4	28.65	29.73	30.65	31.86	32.4
Iran	13.27	13.68	12.23	13.43	12.88	11.93	7.46	3.91	3.28	5.12	5.67	5.28
Iraq	4.35	4.25	4.89	5.25	5.08	5.53	7.49	5.45	2.16	2.19	2.17	2.61
Kuwait	6.75	5.67	4.68	4.84	4.46	4.9	5.78	3.88	2.7	1.98	2.51	2.76
Saudi Arabia	16.63	18.68	15.68	18.88	20.51	18.45	21.24	22.48	22.57	14.86	11.69	11.29
United Arab Emirates	3.27	3.56	3.56	4.2	4.45	4.09	4.12	3.89	3.45	3	2.91	3
Total Middle East	46.61	48.33	43.58	49.13	49.77	47.3	48.65	42.13	36.73	29.54	27.29	27.65
Algeria	2.47	2.35	2.34	2.65	2.63	3.28	3.16	2.75	2.95	3.11	3.46	3.71
Libya	4.72	3.32	3.27	4.26	4.53	4.4	4.63	4.03	2.57	2.61	2.52	2.53
Nigeria	4.45	4.89	3.88	4.51	4.5	4.06	4.95	4.5	3.18	2.86	2.77	3.12
South Africa	1.48	1.57	1.65	1.84	2.03	2.15	2.46	2.74	3.09	3.24	3.45	3.87
Total Africa	14.81	13.93	13.19	15.49	16.44	16.7	18.3	17.35	15.09	15.42	16.12	17.52
Australia	3.25	3.44	3.64	3.35	3.43	3.51	3.66	3.53	3.89	4.04	4.24	4.42
China	13.14	14.25	15.11	15.35	16.16	18.05	18.53	18.32	18.1	19.13	20.46	22.39
India	2.22	2.36	2.68	2.88	2.95	3.14	3.3	3.35	4.09	4.43	4.87	5.21
Indonesia	2.9	2.99	2.9	3.38	3.85	3.71	3.83	4.16	4.27	3.65	3.84	4.27
Total Far East & Oceania	26.17	28.04	29.71	30.59	32.09	34.53	35.99	36.53	37.47	38.9	41.54	45.08
Poland	4.94	5.09	5.37	5	5.18	5.36	5.51	5.28	4.54	5.16	5.25	5.37
USSR	39.28	41.77	43.62	47.46	49.79	52.11	53.88	55.67	56.71	58.27	59.96	62
Total Eastern Europe & USSR	51.44	54.17	56.51	60.23	62.95	65.4	67.52	69.2	69.67	72.18	74.15	76.53
TOTAL WORLD	244.78	248.81	246.03	259.67	268.37	273.87	288.31	286.5	281.66	279.98	282.07	296.83

See notes and sources at end of table

World Primary Energy Production(a)
(Quadrillion Btu)

Region and Country	1985	1986	1987	1988	1989(p)
Canada	11.8	11.71	12.32	13.17	13.02
Mexico	7.74	7.07	7.2	7.3	7.36
United States	64.55	63.99	64.58	65.77	65.83
Total North America	84.09	82.77	84.11	86.24	86.21
Venezuela	4.77	5.14	5.07	5.53	5.58
Total Central & South America	13.42	14.11	14.05	15.16	15.33
France	3.54	3.8	3.97	4.1	4.02
West Germany	6.1	5.85	5.8	5.93	5.87
Italy	1.18	1.26	1.19	1.27	1.25
Netherlands	2.82	2.71	2.78	2.55	2.62
Norway	3.82	3.97	4.48	4.84	5.77
United Kingdom	10.11	10.55	10.24	9.93	9.16
Total Western Europe	34.98	35.82	36.53	36.98	36.66
Iran	5.57	5.06	5.66	5.7	7.06
Iraq	3.09	3.66	4.58	5.97	6.3
Kuwait	2.44	3.36	3.77	3.63	4.31
Saudi Arabia	8.55	11.91	10.73	12.73	12.69
United Arab Emirates	3.29	3.68	4.21	4.22	5.06
Total Middle East	25.66	30.62	32.08	35.98	39.55
Algeria	3.77	3.55	4.01	4.02	4.21
Libya	2.46	2.43	2.29	2.73	2.67
Nigeria	3.35	3.3	3.04	3.29	3.8
South Africa	4.17	4.26	4.23	4.3	4.27
Total Africa	18.42	18.13	18.48	19.43	20.24
Australia	5.34	5.49	6.02	5.82	5.78
China	24.14	24.9	26.19	27.07	27.23
India	5.52	5.96	5.81	5.89	6.05
Indonesia	4.24	4.33	4.36	4.42	4.66
Total Far East & Oceania	48.99	51.09	53.14	54.24	55.12
Poland	5.54	5.72	5.79	5.87	5.52
USSR	63.81	66.38	68.49	70.9	70.33
Total Eastern Europe & USSR	78.64	81.49	83.54	86.18	85.24
TOTAL WORLD	304.19	314.02	321.92	334.22	338.35

(a) Includes only crude oil, lease condensate, natural gas plant liquids, dry natural gas, coal, net hydroelectric power and net nuclear power.

SOURCE: U.S. Energy Information Administration, International Energy Annual.

World Coal Production(a)
(Million Short Tons)

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Canada	23	23	28	28	32	34	37	40	44	47	50	63	67	64	67	78
Mexico	5	6	6	6	7	7	8	8	8	8	10	10	9	9	8	11
United States	599	610	655	685	697	670	781	830	824	838	782	896	884	890	919	950
Total North America	626	639	688	719	736	711	826	878	876	894	841	969	960	964	994	1,039
Total Central & South America	8	9	9	10	10	10	16	16	14	16	16	18	21	23	27	27
West Germany	238	244	238	247	229	228	239	239	241	247	236	233	231	222	211	207
United Kingdom	143	121	142	137	135	136	135	141	138	137	127	55	104	119	115	117
Yugoslavia	36	37	39	41	43	44	46	52	58	60	65	72	75	77	78	78
Total Western Europe	508	488	509	518	506	509	529	543	561	577	571	510	570	584	573	564
South Africa	69	73	77	85	94	100	114	127	144	151	161	179	192	195	195	196
Total Africa	75	78	82	91	100	106	121	133	149	157	167	184	198	201	202	204
Australia	94	100	105	109	111	114	119	116	130	140	146	153	186	187	209	198
China	520	548	570	586	606	681	698	684	683	734	788	870	937	959	1,019	1,058
India	89	96	109	116	115	116	118	125	142	148	158	168	173	188	207	208
Total Middle East, Far East & Oceania	800	842	890	911	934	1,014	1,042	1,036	1,068	1,136	1,205	1,307	1,422	1,463	1,568	1,592
Czechoslovakia	120	122	127	130	134	136	137	136	137	139	140	143	140	139	137	137
East Germany	272	269	272	273	280	279	282	285	294	304	309	327	344	343	331	342
Poland	216	222	233	241	250	258	264	254	219	250	258	267	275	286	290	294
U.S.S.R.	736	755	773	784	796	798	792	790	776	792	789	785	798	825	832	846
Total Eastern Europe & USSR	1,431	1,454	1,494	1,513	1,546	1,560	1,571	1,566	1,529	1,593	1,601	1,635	1,671	1,709	1,704	1,739
TOTAL WORLD	3,447	3,511	3,673	3,763	3,834	3,911	4,105	4,173	4,198	4,375	4,402	4,623	4,844	4,944	5,070	5,166

See notes and sources at end of table

Section I
Table 14a

World Coal Production(a)
(Million Short Tons)

Region and Country	1989(p)
Canada	78
Mexico	13
United States	980
Total North America	1,071
Total Central & South America	28
West Germany	206
United Kingdom	117
Yugoslavia	82
Total Western Europe	563
South Africa	194
Total Africa	202
Australia	201
China	1,063
India	210
Total Middle East, Far East & Oceania	1,602
Czechoslovakia	138
East Germany	336
Poland	275
U.S.S.R.	816
Total Eastern Europe & USSR	1,687
TOTAL WORLD	5,154

(a) Includes anthracite, subanthracite, bituminous, subbituminous, lignite and brown coal.

SOURCE: U.S. Energy Information Administration, International Energy Annual

United States Government Energy Use by Agency, by Source
(Fiscal Year, Trillion BTU)

	Petroleum								
Agency	Motor Gasoline	Distillate & Residual Fuel Oils	Jet Fuel & Aviation Gas	Other(a)	Total	Electricity(e)	Natural Gas	Coal and Other(b)	Total
					1980				
Defense	28.0	278.9	635.8	2.8	945.5	298.4	105.3	45.6	1,394.8
Energy	1.3	3.6	0.3	0.2	5.4	51.7	9.7	17.2	84.0
Postal Service	10.0	2.8	0.0	0.1	12.8	35.0	3.0	1.4	52.3
GSA	0.1	1.7	0.0	0.0	1.8	29.4	3.2	4.4	38.9
Veteran's Administration	0.5	3.4	0.0	0.0	3.9	18.5	14.0	1.8	38.2
Transportation	1.4	7.6	5.3	0.0	14.3	11.8	1.0	0.4	27.6
NASA	0.3	1.0	1.5	0.0	2.8	15.3	2.6	0.7	21.4
Interior	2.7	2.1	0.1	0.5	5.5	4.5	1.6	0.1	11.7
Agriculture	4.6	1.2	0.3	0.2	6.3	3.6	1.2	0.0	11.2
Health & Human Services	0.6	2.2	0.0	0.1	2.9	5.0	1.6	0.0	9.5
Justice	1.9	0.5	0.1	0.0	2.4	2.4	2.0	0.5	7.4
Other(c)	4.7	2.7	0.2	0.0	7.7	6.6	1.9	0.3	16.6
TOTAL	56.1	307.7	643.6	4.0	1,011.3	482.3	147.3	72.6	1,713.5
					1990(p)				
Defense	12.5	286.3	723.9	4.2	1,027.0	407.1	108.1	54.6	1,596.7
Energy	1.2	3.3	0.4	0.2	5.1	65.0	9.3	10.0	89.3
Postal Service	8.9	4.5	0.0	0.2	13.6	40.1	3.6	0.8	58.1
Veteran's Admin.	0.4	2.3	0.0	0.0	2.7	27.0	13.0	1.2	43.9
GSA	0.1	0.7	0.0	0.0	0.8	30.4	2.4	2.5	36.2
Transportation	0.8	5.6	6.9	0.1	13.4	13.6	1.1	0.0	28.1
NASA	0.2	1.0	1.6	0.0	2.7	22.0	2.9	0.5	28.1
Agriculture	4.6	0.8	0.1	0.2	5.7	6.9	1.7	0.0	14.3
Health & Human Serv.	0.2	2.9	0.0	0.1	3.2	9.5	2.1	0.3	15.0
Justice	1.9	0.3	0.1	0.0	2.4	5.3	2.5	1.4	11.7
Interior	2.2	1.1	0.2	1.0	4.5	4.3	1.1	0.2	10.2
Other(d)	4.6	3.2	1.2	0.0	9.0	15.2	2.3	0.8	27.3
TOTAL	37.7	311.9	734.4	6.1	1,090.1	646.3	150.2	72.3	1,958.9

See notes and sources at end of table

United States Government Energy Use by Agency, by Source
(Fiscal Year, Trillion BTU)

(p) Preliminary.
(a) Includes liquefield petroleum gases and other.
(b) Includes purchased steam, coal and other.
(c) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission and Environmental Protection Agency.
(d) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, National Archives, Environmental Protection Agency, Federal Trade Commission, Commodities Futures Trading Commission, Nuclear Regulatory Commission, Railroad Retirement Board, Equal Employment Opportunity Commission, and Office of Personnel Management.
(e) Conversion factor for electricity used was 11,600 Btu per kilowatthour.
NOTE: These data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the Defense Department. U.S. Government energy use for electricity generation and uranium enrichment is excluded. However, other energy used by U.S. agencies that produce electricity and enrich uranium is included.

SOURCE: U.S. Energy Information Administration, Annual Energy Review 1990.

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Table 16

United States Government Energy Use(a)
(Fiscal Year, Trillion BTU)

AGENCY	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990(p)
Defense	1,558.1	1,386.8	1,398.4	1,365.7	1,384.6	1,394.8	1,455.4	1,484.3	1,475.1	1,524.1	1,494.7	1,460.5	1,537.3	1,424.9	1,564.1	1,596.7
Energy	85.2	87.2	87.9	87.1	86.9	84.0	85.3	89.1	91.3	95.5	97.1	92.0	93.2	96.7	89.9	89.3
Postal Service	59.2	58.3	62.9	58.6	56.0	52.3	50.9	49.4	48.4	50.5	51.0	51.5	53.3	55.8	57.9	58.1
GSA	43.0	41.1	41.1	41.3	40.5	38.9	39.1	38.9	37.8	38.0	35.4	34.1	32.4	30.4	31.0	36.2
Veteran's Admin.	39.2	36.5	37.9	39.4	38.5	38.2	37.4	38.0	38.7	40.0	40.6	41.8	42.0	44.4	44.9	43.9
Transportation	28.5	27.4	28.8	28.9	27.6	27.6	28.0	28.5	28.7	29.2	28.6	28.5	28.7	28.5	28.1	28.1
NASA	26.4	25.1	24.0	22.4	22.4	21.4	21.2	21.8	22.4	23.0	23.3	24.7	25.2	25.4	27.5	28.1
Agriculture	11.9	11.6	10.8	11.2	11.6	11.2	10.9	10.4	10.4	10.7	12.0	10.6	11.4	11.9	12.9	14.3
Interior	12.3	13.1	13.5	12.3	13.6	11.7	10.7	10.7	10.8	11.8	10.6	10.0	9.7	10.4	10.4	10.2
Health & Human Serv.	9.3	9.6	9.9	9.6	9.7	9.5	10.6	10.2	10.3	10.8	13.0	10.7	11.2	12.1	12.9	15.0
Justice	7.1	7.1	7.5	7.4	8.1	7.4	7.1	7.7	7.6	8.9	10.8	11.3	11.1	12.3	11.7	11.7
Other(b)	14.8	15.0	15.8	16.9	16.7	16.6	16.3	18.4	16.9	17.7	17.4	18.0	19.8	24.3	26.2	27.3
TOTAL	1,895.0	1,718.9	1,738.6	1,701.0	1,716.3	1,713.5	1,772.9	1,807.5	1,798.6	1,860.2	1,834.5	1,793.5	1,875.2	1,777.1	1,917.3	1,958.9

ENERGY SOURCE																
Petroleum	1,162.0	1,015.8	1,041.5	1,002.2	1,012.7	1,011.4	1,065.8	1,082.5	1,060.9	1,093.6	1,052.3	1,032.2	1,069.7	951.5	1,053.8	1,090.1
Motor Gasoline	63.4	59.9	60.9	59.6	58.6	56.1	52.9	52.9	51.4	51.0	50.5	45.3	43.1	41.2	41.1	37.7
Aviation Gasoline	21.1	11.6	8.8	6.2	4.7	4.9	4.6	3.6	2.6	1.9	1.9	1.4	1.0	6.0	0.7	0.6
Jet Fuel	707.4	610.0	619.2	601.2	618.6	638.7	653.3	672.7	673.3	693.7	705.7	710.2	702.3	686.8	686.8	733.8
Distillate & Residual	364.7	329.7	348.5	332.3	327.1	307.7	351.3	349.4	329.5	342.9	290.2	271.4	319.3	284.4	244.9	311.9
LPG's	5.4	4.6	4.1	3.0	3.7	4.0	3.7	3.9	4.0	4.1	4.0	3.9	4.0	2.7	5.4	6.1
Electricity	481.2	473.5	479.7	479.2	479.9	482.3	491.2	501.6	515.2	530.1	552.8	539.9	575.9	580.6	638.8	646.3
Natural Gas	166.2	151.8	141.2	144.7	148.9	147.3	142.2	146.2	147.8	157.4	149.0	141.3	145.7	144.8	151.6	150.2
Coal	77.9	71.3	68.4	66.0	65.1	63.5	65.1	68.6	62.4	65.3	64.0	63.8	67.0	60.1	48.6	48.0
Purchased Steam	7.6	6.3	7.8	8.7	9.7	9.1	8.5	8.6	12.3	13.8	16.5	16.3	17.0	40.1	24.4	24.3
TOTAL	1,895.0	1,718.9	1,738.6	1,701.0	1,716.3	1,713.5	1,772.9	1,807.5	1,798.6	1,860.2	1,834.5	1,793.5	1,875.2	1,777.1	1,917.3	1,958.9

(a) Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering primarily by the Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. However, other energy used by U.S. agencies that produce electricity or enrich uranium is included.

(b) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, Environmental Protection Agency, National Archives, Federal Trade Commission, Railroad Retirement Board, Commodities Futures Trading Commission, Equal Employment Opportunity Commission, Nuclear Regulatory Commission, and Office of Personnel Management.

(p) Preliminary

SOURCE: U.S. Energy Information Administration, Annual Energy Review 1990.

BASIC PETROLEUM DATA BOOK

SECTION II. RESERVES, CRUDE OIL

Table 1. Estimated Proved World Crude Oil Reserves

Table 2. U.S. Crude Oil Reserves

Table 3. U.S. Proved Crude Oil Reserves by State

Table 4. Estimated Proved World Crude Oil Reserves-Twenty Leading Nations

Table 5. USGS Estimates of U.S. Oil and Gas Resources

Section II
Table 1

Estimated Proved World Crude Oil Reserves
Annually as of January 1
(Millions of Barrels)

Year	United States(a)	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1948	21,487.7	125.0	10,085.0	31,697.7	28,550.0	100.0	1,300.0	50.0	61,697.7	6,500.0	NA	68,197.7
1949	23,280.4	500.0	10,880.0	34,660.4	32,621.0	122.0	1,372.0	179.0	68,954.4	4,645.0	NA	73,599.4
1950	24,649.5	1,200.0	11,400.8	37,250.3	32,413.0	202.5	1,557.0	289.0	71,711.7	4,741.0	NA	76,452.7
1951	25,268.4	1,202.6	11,525.0	37,996.0	41,567.0	188.0	1,765.0	445.4	81,961.4	7,965.0	NA	89,926.4
1952	27,468.0	1,376.6	12,710.9	41,555.5	51,320.0	175.0	1,965.5	501.5	95,517.5	7,927.0	NA	103,444.5
1953	27,960.6	1,679.5	11,883.5	41,523.6	64,825.0	163.0	2,062.0	472.7	109,046.3	9,408.0	NA	118,454.3
1954	28,944.8	1,845.4	13,182.0	43,972.3	78,160.0	158.0	2,583.0	641.5	125,514.8	9,455.0	NA	134,969.8
1955	29,560.7	2,207.6	14,356.0	46,124.4	97,459.0	112.0	2,708.0	1,049.2	147,452.6	10,047.0	NA	157,499.6
1956	30,012.2	2,509.5	15,515.0	48,036.7	126,271.0	169.0	3,000.0	1,261.0	178,737.7	10,833.0	NA	189,570.7
1957	30,434.6	2,849.4	17,474.0	50,758.0	144,470.0	285.0	6,140.0	1,305.0	202,958.0	25,000.0	NA	227,958.0
1958	30,300.4	2,874.6	21,003.5	54,178.4	169,566.0	814.0	8,578.0	1,304.0	234,440.4	26,200.0	NA	260,640.4
1959	30,535.9	3,165.9	21,843.0	55,544.8	173,951.0	4,118.5	9,646.5	1,437.0	244,697.8	27,705.0	NA	272,402.8
1960	31,719.3	3,497.1	24,435.6	59,652.1	181,436.0	7,273.5	10,175.5	1,496.0	260,033.1	30,002.0	NA	290,035.1
1961	31,613.2	3,678.5	25,061.8	60,353.6	183,160.0	8,099.5	10,906.5	1,722.0	264,241.6	33,502.0	NA	297,743.6
1962	31,758.5	4,173.6	24,706.0	60,638.1	188,204.0	9,709.5	10,867.6	1,736.0	271,155.2	34,252.0	NA	305,407.2
1963	31,389.2	4,480.7	24,225.5	60,095.4	193,975.0	12,345.5	11,331.1	1,791.0	279,538.0	29,976.0	NA	309,514.0
1964	30,970.0	4,881.5	24,305.0	60,156.5	207,368.0	16,375.5	11,621.2	1,925.6	297,446.8	29,500.0	NA	326,946.8
1965	30,990.5	6,177.5	25,525.0	62,693.1	212,180.0	19,395.6	11,613.7	2,035.6	307,918.0	30,750.0	NA	338,668.0
1966	31,352.4	6,711.2	25,170.5	63,234.1	215,360.0	23,049.0	11,008.8	2,085.0	314,736.9	33,485.0	NA	348,221.9
1967	31,452.1	7,791.8	27,100.3	66,344.2	235,614.6	32,355.5	11,808.5	1,924.5	348,047.3	33,838.0	NA	381,885.3
1968	31,376.7	8,168.9	26,907.3	66,452.8	249,209.0	42,285.3	11,815.9	2,017.0	371,780.0	35,773.0	NA	407,553.0
1969	30,707.1	8,381.6	28,782.8	67,871.5	270,760.0	44,568.8	13,720.2	1,937.0	398,857.5	55,877.0	NA	454,734.5
1970	29,631.9	8,619.8	29,179.8	67,431.4	333,506.0	54,679.5	13,138.2	1,779.0	470,534.1	60,000.0	NA	530,534.1
1971	39,001.3	8,559.0	26,185.3	73,745.6	344,574.9	74,757.5	14,408.6	3,708.5	511,195.1	100,000.0	NA	611,195.1
1972	38,063.0	8,333.1	31,558.8	77,954.8	367,386.0	58,886.2	15,604.5	14,222.0	534,053.5	98,500.0	NA	632,553.5
1973	36,339.4	8,020.1	32,601.8	76,961.3	355,852.0	106,402.0	14,922.3	12,082.0	566,219.6	98,000.0	NA	664,219.6
1974	35,299.8	7,674.2	31,640.3	74,614.2	350,162.5	67,303.8	15,635.0	15,991.0	523,706.5	103,000.0	NA	626,706.5
1975	34,250.0	7,171.2	40,578.0	81,999.2	403,858.2	68,299.5	21,047.7	25,814.0	601,018.5	111,400.0	NA	712,418.5
1976	32,682.1	6,653.0	35,368.0	74,703.1	368,410.6	65,085.2	21,234.2	25,487.7	554,920.8	103,000.0	NA	657,920.8
1977	33,502.0	6,247.1	29,609.0	69,358.0	367,681.2	60,570.2	19,391.1	24,538.8	541,539.4	101,100.0	NA	642,639.4
1978	31,780.0	5,970.9	40,270.0	78,020.9	366,166.0	59,200.2	19,749.3	26,862.5	549,998.8	98,000.0	NA	647,998.8
1979	31,355.0	6,860.0	41,246.5	79,461.5	369,996.0	57,892.1	20,007.2	23,966.0	551,322.8	94,000.0	NA	645,322.8
1980	29,810.0	6,800.0	56,472.5	93,082.0	361,947.3	57,072.1	19,355.2	23,476.4	554,933.0	90,000.0	NA	644,933.0
1981	29,805.0	6,400.0	69,489.8	105,694.8	362,071.0	55,148.4	19,630.5	23,085.0	565,629.7	86,300.0	NA	651,929.7
1982	29,426.0	7,300.0	84,982.3	121,708.3	362,840.0	56,171.6	19,150.8	24,634.5	584,505.2	85,845.0	NA	670,350.2
1983	27,858.0	7,020.0	78,482.1	113,360.1	369,285.9	57,821.7	19,756.1	22,923.7	583,147.4	85,115.0	NA	668,262.4
1984	27,735.0	6,730.0	81,675.9	116,140.9	370,100.8	56,907.0	18,969.4	23,019.5	585,137.6	84,600.0	NA	669,737.6
1985	28,446.0	7,075.0	83,315.7	118,836.7	398,380.8	55,540.6	18,529.9	24,425.5	615,713.4	84,100.0	NA	699,813.4
1986	28,416.0	6,500.0	84,242.4	119,158.4	398,035.7	56,734.1	18,855.8	26,412.6	619,196.6	81,370.0	NA	700,566.6
1987	26,889.0	6,850.0	88,755.3	122,494.3	401,878.7	55,194.1	19,023.5	21,938.1	620,528.7	79,250.0	NA	699,778.7
1988	27,256.0	6,825.0	114,332.0	148,413.0	564,680.3	55,249.7	19,353.7	22,447.8	810,144.5	79,200.0	NA	889,344.5

See notes and sources at end of table

Estimated Proved World Crude Oil Reserves
Annually as of January 1
(Millions of Barrels)

Year	United States(a)	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1989	26,825.0	6,785.5	121,950.7	155,561.2	571,518.8	56,963.8	21,367.4	18,556.6	823,967.8	83,800.0	NA	907,767.8
1990	26,501.0	6,133.5	125,026.9	157,661.4	660,247.2	58,836.6	22,545.4	18,822.1	918,112.7	84,100.0	NA	1,002,212.7
1991	26,254.0	5,782.9	121,090.7	153,050.7	662,597.9	59,892.1	50,242.1	14,475.8	940,258.6	NA	58,855.0	999,113.5

(a) For 1971-1974 figures include 6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.
(b) Due to the political changes in the USSR and Eastern Europe the category Communist Nations has been discontinued.
Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1948-1976: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
1977-1991: United States, U.S. Energy Information Administration, Crude Oil, Natural Gas and
Natural Gas Liquids Reserves Report, Annual.
Canada, Canadian Petroleum Association (1952-1980)
Rest of the World, Oil and Gas Journal, "Worldwide Report" Issues
1991: Oil and Gas Journal, "Worldwide Report" Issue

Section II
Table 2

United States Crude Oil Reserves
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Revisions Extensions and Discoveries, During Year	Production During Year (a)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1947	20,873,560	2,464,570	1,850,445	21,487,685	11.6
1948	21,487,685	3,795,207	2,002,448	23,280,444	11.6
1949	23,280,444	3,187,845	1,818,800	24,649,489	13.6
1950	24,649,489	2,562,685	1,943,776	25,268,398	13.0
1951	25,268,398	4,413,954	2,214,321	27,468,031	12.4
1952	27,468,031	2,749,288	2,256,765	27,960,554	12.4
1953	27,960,554	3,296,130	2,311,856	28,944,828	12.5
1954	28,944,828	2,873,037	2,257,119	29,560,746	13.1
1955	29,560,746	2,870,724	2,419,300	30,012,170	12.4
1956	30,012,170	2,974,336	2,551,857	30,434,649	11.9
1957	30,434,649	2,424,800	2,559,044	30,300,405	11.8
1958	30,300,405	2,608,242	2,372,730	30,535,917	12.9
1959	30,535,917	3,666,745	2,483,315	31,719,347	12.8
1960	31,719,347	2,365,328	2,471,464	31,613,211	12.8
1961	31,613,211	2,657,567	2,512,273	31,758,505	12.6
1962	31,758,505	2,180,896	2,550,178	31,389,223	12.3
1963	31,389,223	2,174,110	2,593,343	30,969,990	11.9
1964	30,969,990	2,664,767	2,644,247	30,990,510	11.7
1965	30,990,510	3,048,079	2,686,198	31,352,391	11.7
1966	31,352,391	2,963,978	2,864,242	31,452,127	11.0
1967	31,452,127	2,962,122	3,037,579	31,376,670	10.3
1968	31,376,670	2,454,635	3,124,188	30,707,117	9.8
1969	30,707,117	2,120,036	3,195,291	29,631,862	9.3
1970	29,631,862	12,688,918 (b)	3,319,445	39,001,335 (b)	11.7 (b)
1971	39,001,335 (b)	2,317,732	3,256,110	38,062,957 (b)	11.7 (b)
1972	38,062,957 (b)	1,557,848	3,281,397	36,339,408 (b)	11.1 (b)
1973	36,339,408 (b)	2,145,831	3,185,400	35,299,839 (b)	11.1 (b)
1974	35,299,839 (b)	1,993,573	3,043,456	34,249,956 (b)	11.3 (b)
1975	34,249,956 (b)	1,318,463	2,886,292	32,682,127 (b)	11.3 (b)
1976	32,682,127 (b)	1,085,291	2,825,252	30,942,166 (b)	11.0 (b)
1977(c	33,502,000	1,140,000	2,862,000	31,780,000	11.1
1978	31,780,000	2,583,000	3,008,000	31,355,000	10.4
1979	31,355,000	1,410,000	2,955,000	29,810,000	10.1
1980	29,810,000	2,970,000	2,975,000	29,805,000	10.0
1981	29,805,000	2,570,000	2,949,000	29,426,000	10.0
1982	29,426,000	1,382,000	2,950,000	27,858,000	9.4
1983	27,858,000	2,897,000	3,020,000	27,735,000	9.2
1984	27,735,000	3,748,000	3,037,000	28,446,000	9.4
1985	28,446,000	3,022,000	3,052,000	28,416,000	9.3
1986	28,416,000	1,446,000	2,973,000	26,889,000	9.0
1987	26,889,000	3,240,000	2,873,000	27,256,000	9.5
1988	27,256,000	2,380,000	2,811,000	26,825,000	9.5

See notes and sources at end of table

United States Crude Oil Reserves
(Thousands of barrels)

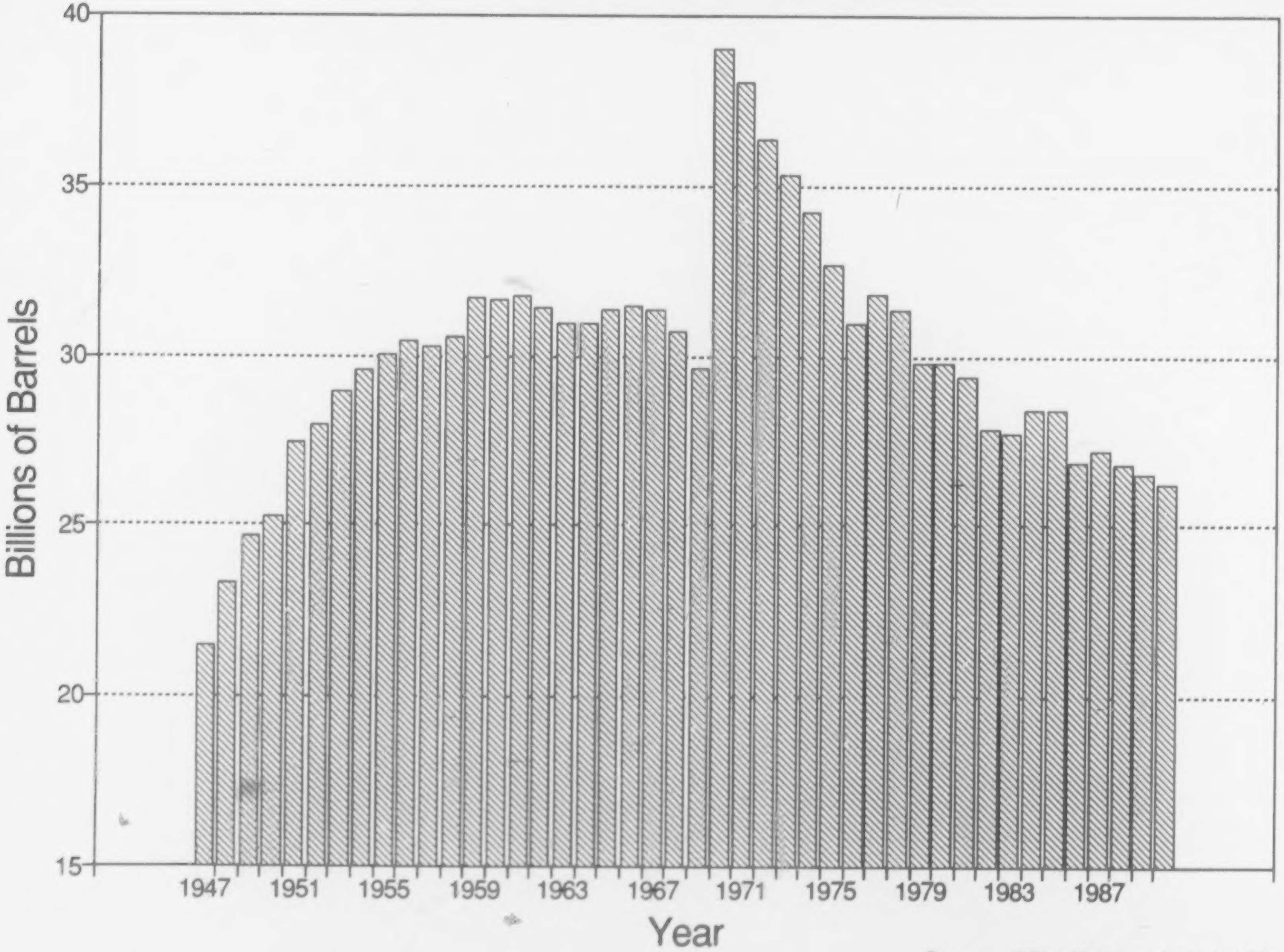
Year	Proved Reserves at Start of Year	Revisions Extensions and Discoveries, During Year	Production During Year (a)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1989	26,825,000	2,262,000	2,586,000	26,501,000	10.2
1990	26,501,000	2 258,000	2,505,000	26,254,000	10.5

(a) Production is the amount originally estimated and used by API in prior reserves reports.
(b) Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968).
(c) Beginning in 1977, crude oil reserves estimates come from the Department of Energy. Therefore, reserves at year-end 1976 do not equal reserves at start of year 1977. These figures include crude oil only, i.e. they exclude lease condensate.

SOURCE: 1947-1976: American Petroleum Institute, Committee on Reserves and Productive Capacity.
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

Section II
Table 2b

U.S. CRUDE OIL RESERVES



Source: API, US Department of Energy

Section II
Table 3

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	2.8	3.5	3.5	5.4	7.9	15.6	17.2	15.6	20.6	37.5	34.4	38.6	34.2
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	296.9	300.0	297.5	341.7	336.5	352.3	358.2	351.4	329.5	317.7	305.0	317.9	312.9
California	3,295.0	3,763.6	3,822.8	3,733.6	3,760.9	3,854.2	3,919.4	3,888.6	3,801.4	3,771.4	3,759.8	3,866.4	3,762.5
Colorado	381.9	365.5	344.8	339.5	325.2	305.7	319.3	328.7	334.0	363.8	309.9	392.1	381.0
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Illinois	355.4	393.4	468.1	564.2	646.3	619.5	624.8	658.4	691.2	700.0	654.7	607.6	594.4
Indiana	46.0	49.1	50.2	57.4	50.7	55.5	62.1	67.2	61.5	67.7	66.7	71.5	74.0
Kansas	562.7	674.4	738.4	732.2	791.9	917.0	913.3	978.4	998.1	992.2	947.5	922.4	917.5
Kentucky	64.6	59.2	56.2	55.9	58.5	55.6	81.7	85.3	107.5	148.4	138.0	126.4	136.3
Louisiana	1,791.0	1,869.3	1,909.8	2,185.1	2,284.8	2,557.5	2,759.7	2,961.7	3,255.3	3,675.4	3,857.6	4,044.0	4,660.1
Michigan	69.7	69.4	66.5	78.7	64.1	57.4	60.7	59.6	58.9	55.3	49.5	45.0	55.3
Mississippi	303.7	365.4	402.9	385.7	385.4	358.8	350.1	412.3	387.7	368.2	359.6	378.7	389.3
Montana	114.7	118.9	112.4	111.3	108.4	156.2	209.0	272.4	298.9	331.4	320.0	337.8	309.3
Nebraska	0.9	0.9	1.6	9.7	15.9	21.8	25.6	38.0	57.7	62.9	63.1	69.2	80.6
New Mexico	530.5	552.2	592.2	592.0	611.6	733.4	814.9	805.9	819.7	835.4	831.7	894.1	1,025.8
New York	71.5	67.1	62.9	58.8	57.1	52.9	48.1	45.8	42.9	40.2	37.5	35.8	34.2
North Dakota	--	--	--	--	5.0	76.2	128.3	134.3	185.5	195.8	258.2	314.1	381.9
Ohio	29.0	28.5	27.7	27.3	26.4	27.4	31.8	36.8	56.0	63.6	68.2	70.8	74.1
Oklahoma	953.0	1,250.4	1,329.9	1,396.9	1,476.5	1,557.6	1,752.2	1,955.3	2,016.0	2,009.8	1,941.5	1,898.1	1,864.7
Pennsylvania	122.7	109.8	103.4	106.4	95.0	121.7	111.1	101.8	93.3	134.7	126.5	119.8	113.6
South Dakota	--	--	--	--	--	--	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	11,777.5	12,484.2	13,509.7	13,581.6	15,315.0	14,916.2	14,998.6	14,982.0	14,933.5	14,783.4	14,555.1	14,322.2	14,859.7
Utah	(a)	(a)	15.8	21.6	29.7	42.4	37.9	36.4	37.1	61.4	140.0	198.6	194.5
West Virginia	36.1	36.7	38.0	39.0	38.8	37.2	36.6	37.3	47.0	51.2	52.5	52.1	51.3
Wyoming	679.3	715.8	691.6	841.0	973.4	1,064.7	1,279.1	1,303.6	1,373.6	1,363.2	1,419.7	1,408.7	1,402.9
Miscellaneous	3.0	3.0	3.6	3.4	3.1	3.8	4.1	3.8	5.2	4.5	3.6	4.0	9.2
TOTAL U.S.(b,c)	21,487.7	23,380.4	24,649.5	25,268.4	27,468.0	27,960.6	28,944.8	29,560.7	30,012.2	30,434.6	30,300.4	30,535.9	31,719.3

See notes and sources at end of table

Section II
Table 3a

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	33.3	35.9	37.5	45.1	49.9	66.4	85.3	78.8	72.7	67.1	65.3	61.5	56.7
Alaska	(a)	(a)	(a)	74.9	82.9	159.8	321.4	380.8	373.2	432.3	10,148.8	10,116.2	10,096.3
Arkansas	302.0	280.7	246.8	225.3	205.2	201.0	181.3	176.4	159.3	127.3	129.6	117.6	113.1
California	3,658.5	3,614.7	3,648.4	3,599.7	4,125.5	4,567.5	4,608.0	4,369.4	4,340.7	4,242.7	3,984.0	3,705.8	3,553.7
Colorado	363.9	419.7	388.3	368.4	346.3	327.2	343.5	339.9	420.5	400.6	389.0	332.8	326.4
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	74.8	204.1	208.1
Illinois	555.9	503.2	460.2	416.6	391.5	371.2	362.3	335.5	313.8	272.1	228.7	208.8	174.9
Indiana	66.3	62.0	61.0	63.4	60.6	57.6	47.9	47.2	40.2	41.3	37.0	30.9	29.4
Kansas	883.8	878.0	862.4	841.3	796.5	751.6	726.4	625.1	600.8	566.0	539.3	501.6	453.4
Kentucky	128.9	116.5	108.6	100.5	117.9	107.6	101.2	94.3	79.5	73.1	61.4	52.5	48.2
Louisiana	4,785.4	4,931.2	5,086.6	5,088.6	5,162.5	5,245.8	5,408.4	5,455.9	5,608.2	5,689.2	5,710.3	5,399.0	5,028.5
Michigan	77.8	78.8	75.0	68.5	58.3	52.8	70.7	62.5	55.3	51.5	45.6	58.8	62.0
Mississippi	407.1	401.2	388.4	384.9	356.7	359.8	374.1	356.7	325.6	360.2	354.7	342.4	312.5
Montana	266.7	250.9	248.9	271.3	251.6	274.1	281.6	308.0	345.1	275.8	241.5	228.2	241.2
Nebraska	86.2	100.4	93.8	83.6	71.1	70.7	57.1	63.2	55.3	46.8	40.9	36.1	30.6
New Mexico	1,083.7	1,090.2	1,064.6	1,010.7	956.8	895.2	1,024.6	925.8	864.5	839.9	760.9	656.9	582.6
New York	32.4	27.7	23.1	18.4	13.6	11.9	10.2	14.6	13.0	11.8	10.6	9.8	9.2
North Dakota	430.5	413.1	403.5	389.2	377.2	395.1	321.3	290.3	287.4	234.5	192.4	174.0	166.0
Ohio	74.7	75.8	77.3	87.8	99.6	100.9	101.2	114.2	132.3	127.4	127.9	129.1	127.4
Oklahoma	1,790.5	1,787.5	1,728.3	1,628.1	1,585.9	1,517.5	1,518.2	1,458.9	1,394.7	1,390.0	1,351.4	1,404.6	1,303.0
Pennsylvania	107.6	102.0	96.7	91.7	86.6	76.8	72.4	63.3	59.2	54.7	51.3	47.1	37.3
South Dakota	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	14,758.5	14,849.6	14,648.3	14,573.1	14,299.8	14,303.1	14,077.1	14,494.1	13,809.9	13,063.2	13,195.5	13,023.5	12,144.1
Utah	208.5	218.1	197.7	219.6	219.5	196.9	213.4	201.0	180.0	195.3	181.5	165.8	244.4
West Virginia	51.4	50.9	56.2	57.3	58.7	55.2	56.6	56.2	53.6	53.5	53.2	51.7	34.0
Wyoming	1,427.4	1,380.5	1,297.0	1,254.3	1,204.5	1,168.9	1,072.5	1,043.5	1,101.3	996.6	1,017.4	997.0	949.8
Miscellaneous	32.3	89.7	90.5	7.5	11.9	17.9	15.3	20.9	20.8	18.9	8.4	7.3	6.5
TOTAL U.S.(b,c)	31,613.2	31,758.5	31,389.2	30,970.0	30,990.5	31,352.4	31,452.1	31,376.7	30,707.1	29,631.9	39,001.3	38,063.0	36,339.0

See notes and sources at end of table

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	53.6	68.7	61.0	53.3	85.0	74.0	45.0	54.0	55.0	54.0	51.0	68.0	69.0
Alaska	10,112.2	10,094.1	10,037.3	9,785.7	8,413.0	9,384.0	8,875.0	8,751.0	8,283.0	7,406.0	7,307.0	7,563.0	7,056.0
Arkansas	105.6	106.3	95.7	93.4	116.0	111.0	107.0	107.0	113.0	107.0	120.0	114.0	97.0
California	3,488.1	3,557.0	3,647.5	3,589.9	5,005.0	4,974.0	5,265.0	5,470.0	5,441.0	5,405.0	5,348.0	5,707.0	5,801.0
Colorado	304.8	289.3	276.1	251.8	230.0	194.0	159.0	183.0	147.0	169.0	186.0	198.0	198.0
Florida	183.9	302.7	262.5	249.6	213.0	168.0	128.0	134.0	109.0	97.0	78.0	82.0	77.0
Illinois	152.3	159.8	161.0	155.3	150.0	158.0	136.0	113.0	129.0	150.0	135.0	153.0	136.0
Indiana	26.6	24.4	22.0	22.3	20.0	29.0	40.0	23.0	23.0	28.0	34.0	33.0	35.0
Kansas	401.1	395.1	364.4	361.6	349.0	303.0	377.0	310.0	371.0	378.0	344.0	377.0	423.0
Kentucky	40.0	36.6	39.3	38.2	30.0	40.0	25.0	35.0	29.0	36.0	35.0	41.0	42.0
Louisiana	4,576.8	4,226.5	3,827.2	3,470.6	3,600.0	3,448.0	2,780.0	2,751.0	2,985.0	2,728.0	2,707.0	2,661.0	2,642.0
Michigan	72.4	82.3	93.3	138.8	233.0	220.0	159.0	205.0	240.0	184.0	209.0	180.0	191.0
Mississippi	291.0	261.4	231.2	214.2	241.0	250.0	238.0	202.0	209.0	223.0	205.0	201.0	184.0
Montana	219.3	207.4	164.0	152.7	175.0	158.0	152.0	179.0	186.0	216.0	234.0	224.0	232.0
Nebraska	28.2	26.8	28.4	31.3	22.0	30.0	25.0	46.0	41.0	32.0	44.0	46.0	42.0
New Mexico	643.0	625.0	588.1	535.5	605.0	579.0	563.0	547.0	555.0	563.0	576.0	660.0	688.0
New York	8.3	10.9	10.0	9.2	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
North Dakota	179.5	172.8	158.2	149.6	155.0	162.0	211.0	214.0	223.0	237.0	258.0	260.0	255.0
Ohio	124.9	123.9	121.3	125.3	74.0	69.0	82.0	116.0	112.0	111.0	130.0	116.0	79.0
Oklahoma	1,271.0	1,232.4	1,239.7	1,186.6	1,109.0	979.0	1,014.0	930.0	950.0	971.0	931.0	940.0	935.0
Pennsylvania	39.6	50.4	48.0	50.6	57.0	27.0	33.0	35.0	32.0	37.0	41.0	40.0	38.0
South Dakota	(a)	(a)	1.9	1.5	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	1.5	1.9	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	11,756.6	11,001.5	10,080.0	9,226.3	9,751.0	8,911.0	8,284.0	8,206.0	8,093.0	7,616.0	7,539.0	7,557.0	7,894.0
Utah	264.5	250.6	208.3	183.2	252.0	188.0	201.0	198.0	190.0	173.0	187.0	172.0	276.0
West Virginia	32.1	32.2	31.4	30.0	21.0	30.0	48.0	30.0	30.0	48.0	49.0	76.0	40.0
Wyoming	916.8	903.4	877.4	827.8	851.0	845.0	841.0	928.0	840.0	856.0	957.0	954.0	951.0
Miscellaneous	7.6	8.5	5.4	6.2	23.0	24.0	22.0	38.0	40.0	33.0	30.0	23.0	35.0
TOTAL U.S.(b,c)	35,299.8	34,250.0	32,682.1	30,942.2	31,780.0	31,355.0	29,810.0	29,805.0	29,426.0	27,858.0	27,735.0	28,446.0	28,416.0

See notes and sources at end of table

Section II
Table 3c

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1986	1987	1988	1989	1990
Alabama	55.0	55.0	54.0	43.0	44.0
Alaska	6,875.0	7,378.0	6,959.0	6,674.0	6,524.0
Arkansas	88.0	82.0	77.0	66.0	60.0
California	4,734.0	4,709.0	4,879.0	4,816.0	4,658.0
Colorado	207.0	272.0	257.0	359.0	305.0
Florida	67.0	61.0	59.0	50.0	42.0
Illinois	135.0	153.0	143.0	123.0	131.0
Indiana	32.0	23.0	22.0	16.0	12.0
Kansas	312.0	357.0	327.0	338.0	321.0
Kentucky	31.0	25.0	34.0	33.0	33.0
Louisiana	826.0	807.0	800.0	745.0	705.0
Michigan	146.0	151.0	132.0	128.0	124.0
Mississippi	199.0	202.0	221.0	218.0	227.0
Montana	248.0	246.0	241.0	225.0	221.0
Nebraska	45.0	33.0	42.0	32.0	26.0
New Mexico	644.0	654.0	661.0	665.0	687.0
New York	(a)	(a)	(a)	(a)	(a)
North Dakota	218.0	215.0	216.0	246.0	285.0
Ohio	72.0	66.0	64.0	56.0	65.0
Oklahoma	874.0	788.0	796.0	789.0	734.0
Pennsylvania	26.0	26.0	27.0	26.0	22.0
South Dakota	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)
Texas	7,152.0	7,112.0	7,043.0	6,966.0	7,106.0
Utah	269.0	284.0	260.0	246.0	249.0
West Virginia	37.0	34.0	33.0	30.0	31.0
Wyoming	849.0	854.0	815.0	825.0	794.0
Miscellaneous	33.0	30.0	34.0	39.0	43.0
TOTAL U.S.(b,c)	26,889.0	27,256.0	26,825.0	26,501.0	26,254.0

(a) Included in Miscellaneous.
(b) Totals may not add due to independent rounding.
(c) 1986 includes 2,715 from federal offshore waters, 1987 = 2,639, 1988 = 2,629, 1989 = 2,747, 1990 = 2,805

SOURCE: 1947-1976: API, AGA and CPA, Reserves of Crude Oil, Natural Gas Liquids and Natural Gas in the United States and Canada, Annual Reports
1977-1989: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves, Annuals.

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1975	Nation	1976	Nation	1977	Nation	1978
1. Saudi Arabia(a)	164,500,000	1. Saudi Arabia(a)	148,600,000	1. Saudi Arabia(a)	151,400,000	1. Saudi Arabia(a)	150,000,000
2. U.S.S.R.	83,400,000	2. U.S.S.R.	80,400,000	2. U.S.S.R.	78,100,000	2. U.S.S.R.	75,000,000
3. Kuwait(a)	72,800,000	3. Kuwait(a)	68,000,000	3. Kuwait(a)	67,400,000	3. Kuwait(a)	67,000,000
4. Iran	66,000,000	4. Iran	64,500,000	4. Iran	63,000,000	4. Iran	62,000,000
5. Iraq	35,000,000	5. Iraq	34,300,000	5. Iraq	34,000,000	5. Iraq	34,500,000
6. United States	34,249,956	6. United States	32,682,127	6. United Arab Emirates	31,200,000	6. United Arab Emirates	32,425,000
7. United Arab Emirates	33,920,000	7. United Arab Emirates	32,200,000	7. United States	33,502,000	7. United States	31,780,000
8. Libya	26,600,000	8. Libya	26,100,000	8. Libya	25,500,000	8. Libya	25,000,000
9. China	25,000,000	9. Nigeria	20,200,000	9. China	20,000,000	9. China	20,000,000
10. Nigeria	20,900,000	10. China	20,000,000	10. Nigeria	19,500,000	10. United Kingdom	19,000,000
11. United Kingdom	15,700,000	11. Venezuela	17,700,000	11. United Kingdom	16,800,000	11. Nigeria	18,700,000
12. Venezuela	15,000,000	12. United Kingdom	16,000,000	12. Venezuela	15,270,000	12. Venezuela	18,200,000
13. Indonesia	15,000,000	13. Indonesia	14,000,000	13. Indonesia	10,500,000	13. Mexico	14,000,000
14. Mexico	13,582,000	14. Mexico	9,500,000	14. Mexico	7,000,000	14. Indonesia	10,000,000
15. Algeria	7,700,000	15. Algeria	7,370,000	15. Algeria	6,800,000	15. Algeria	6,600,000
16. Norway	7,300,000	16. Norway	7,000,000	16. Canada	6,257,082	16. Norway	6,000,000
17. Canada	7,171,229	17. Canada	6,653,002	17. Oman	5,800,000	17. Canada	5,970,872
18. Oman	6,000,000	18. Oman	5,900,000	18. Qatar	5,700,000	18. Oman	5,650,000
19. Qatar	6,000,000	19. Qatar	5,850,000	19. Norway	5,660,000	19. Qatar	5,600,000
20. Congo Republic	4,874,000	20. Egypt	3,900,000	20. India	3,000,000	20. India	3,000,000
TOTAL WORLD	712,418,535	TOTAL WORLD	657,920,849	TOTAL WORLD	642,639,400	TOTAL WORLD	647,998,800

See notes and sources at end of table

Section II
Table 4a

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1979	Nation	1980	Nation	1981	Nation	1982
1. Saudi Arabia(a)	165,700,000	1. Saudi Arabia(a)	163,350,000	1. Saudi Arabia(a)	165,000,000	1. Saudi Arabia(a)	164,600,000
2. U.S.S.R.	71,000,000	2. U.S.S.R.	67,000,000	2. Kuwait(a)	64,900,000	2. Kuwait(a)	64,480,000
3. Kuwait(a)	66,200,000	3. Kuwait(a)	65,400,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000
4. Iran	59,000,000	4. Iran	58,000,000	4. Iran	57,500,000	4. Iran	57,000,000
5. Iraq	32,100,000	5. Mexico	31,250,000	5. Mexico	44,000,000	5. Mexico	56,990,000
6. United States	31,355,000	6. Iraq	31,000,000	6. United Arab Emirates	30,410,000	6. United Arab Emirates	32,176,000
7. United Arab Emirates	31,316,000	7. United States	29,810,000	7. Iraq	30,000,000	7. United States	29,426,000
8. Libya	24,300,000	8. United Arab Emirates	29,411,300	8. United States	29,805,000	8. Iraq	29,700,000
9. China	20,000,000	9. Libya	23,500,000	9. Libya	23,000,000	9. Libya	22,600,000
10. Nigeria	18,200,000	10. China	20,000,000	10. China	20,500,000	10. Venezuela	20,300,000
11. Venezuela	18,000,000	11. Venezuela	17,870,000	11. Venezuela	17,950,000	11. China	19,895,000
12. Mexico	16,000,000	12. Nigeria	17,400,000	12. Nigeria	16,700,000	12. Nigeria	16,500,000
13. United Kingdom	16,000,000	13. United Kingdom	15,400,000	13. United Kingdom	14,800,000	13. United Kingdom	14,800,000
14. Indonesia	10,200,000	14. Indonesia	9,600,000	14. Indonesia	9,500,000	14. Indonesia	9,800,000
15. Canada	6,860,000	15. Algeria	8,440,000	15. Algeria	8,200,000	15. Algeria	8,080,000
16. Algeria	6,300,000	16. Canada	6,800,000	16. Canada	6,400,000	16. Norway	7,620,000
17. Norway	5,900,000	17. Norway	5,750,000	17. Norway	5,500,000	17. Canada	7,300,000
18. Qatar	4,000,000	18. Qatar	3,760,000	18. Qatar	3,585,000	18. Qatar	3,434,000
19. Egypt	3,200,000	19. Egypt	3,100,000	19. Malaysia	3,000,000	19. Egypt	2,930,000
20. India	2,900,000	20. Malaysia	2,800,000	20. Egypt(2)	2,900,000	20. Malaysia	2,800,000
TOTAL WORLD	645,322,800	TOTAL WORLD	644,933,000	TOTAL WORLD	651,929,712	TOTAL WORLD	670,350,150

See notes and sources at end of table

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1983	Nation	1984	Nation	1985	Nation	1986
1. Saudi Arabia(a)	162,400,000	1. Saudi Arabia(a)	166,000,000	1. Saudi Arabia(a)	169,000,000	1. Saudi Arabia(a)	168,800,000
3. Kuwait(a)	64,230,000	2. Kuwait(a)	63,900,000	2. Kuwait(a)	90,000,000	2. Kuwait(a)	89,774,000
2. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	61,000,000
4. Iran	55,308,000	4. Iran	51,000,000	4. Mexico	48,600,000	4. Mexico	49,300,000
5. Mexico	48,300,000	5. Mexico	48,000,000	5. Iran	48,500,000	5. Iran	47,876,000
6. Iraq	41,000,000	6. Iraq	43,000,000	6. Iraq	44,500,000	6. Iraq	44,110,000
7. United Arab Emirates	32,354,000	7. United Arab Emirates	32,240,000	7. United Arab Emirates	32,390,000	7. United Arab Emirates	32,890,000
8. United States	27,858,000	8. United States	27,735,000	8. United States	28,446,000	8. United States	28,416,000
9. Libya	21,500,000	9. Venezuela	24,850,000	9. Venezuela	25,845,000	9. Venezuela	25,591,000
10. Venezuela	21,500,000	10. Libya	21,270,000	10. Libya	21,100,000	10. Libya	21,300,000
11. China	19,485,000	11. China	19,100,000	11. China	19,100,000	11. China	18,420,000
12. Nigeria	16,750,000	12. Nigeria	16,550,000	12. Nigeria	16,650,000	12. Nigeria	16,600,000
13. United Kingdom	13,900,000	13. United Kingdom	13,150,000	13. United Kingdom	13,590,000	13. United Kingdom	13,000,000
14. Indonesia	9,550,000	14. Algeria	9,220,000	14. Algeria	9,000,000	14. Norway	10,900,000
15. Algeria	9,440,000	15. Indonesia	9,100,000	15. Indonesia	8,650,000	15. Algeria	8,820,000
16. Canada	7,020,000	16. Norway	7,660,000	16. Norway	8,300,000	16. Indonesia	8,500,000
17. Norway	6,800,000	17. Canada	6,730,000	17. Canada	7,075,000	17. Canada	6,500,000
18. Qatar	3,425,000	18. India	3,485,000	18. Oman	3,500,000	18. Oman	4,000,000
19. Malaysia	3,325,000	19. Egypt	3,450,000	19. India	3,500,000	19. Egypt	3,850,000
20. Egypt	3,325,000	20. Qatar	3,330,000	20. Qatar	3,350,000	20. India	3,736,000
TOTAL WORLD	668,262,406	TOTAL WORLD	669,737,600	TOTAL WORLD	699,813,400	TOTAL WORLD	700,566,560

See notes and sources at end of table

Section II
Table 4c

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1987	Nation	1988	Nation	1989	Nation	1990
1. Saudi Arabia	166,573,900	1. Saudi Arabia	166,980,000	1. Saudi Arabia	169,970,000	1. Saudi Arabia	254,959,000
2. Kuwait	91,916,000	2. Iraq	100,000,000	2. Iraq	100,000,000	2. Iraq	100,000,000
3. U.S.S.R.	59,000,000	3. United Arab Emirates	97,705,000	3. United Arab Emirates	97,705,000	3. United Arab Emirates	97,705,000
4. Mexico	54,653,000	4. Iran	92,850,000	4. Iran	92,850,000	4. Kuwait	94,525,000
5. Iran	48,800,000	5. Kuwait	91,920,000	5. Kuwait	91,920,000	5. Iran	92,860,000
6. Iraq	47,100,000	6. U.S.S.R.	59,000,000	6. U.S.S.R.	58,500,000	6. Venezuela	58,504,000
7. United Arab Emirates	32,850,000	7. Venezuela	56,300,000	7. Venezuela	58,083,900	7. U.S.S.R.	58,400,000
8. United States	26,889,000	8. Mexico	48,610,000	8. Mexico	54,110,000	8. Mexico	56,365,000
9. Venezuela	25,000,000	9. United States	27,256,000	9. United States	26,825,000	9. United States	26,501,000
10. Libya	21,300,000	10. Libya	21,000,000	10. China	23,500,000	10. China	24,000,000
11. China	18,400,000	11. China	18,400,000	11. Libya	22,000,000	11. Libya	22,800,000
12. Nigeria	16,000,000	12. Nigeria	15,980,000	12. Nigeria	16,000,000	12. Nigeria	16,000,000
13. Norway	10,500,000	13. Norway	14,800,000	13. Norway	10,435,000	13. Norway	11,546,204
14. United Kingdom	9,000,000	14. Algeria	8,500,000	14. Algeria	8,400,000	14. Algeria	9,200,000
15. Algeria	8,800,000	15. Indonesia	8,400,000	15. Indonesia	8,250,000	15. Indonesia	8,200,000
16. Indonesia	8,300,000	16. Canada	6,825,000	16. Canada	6,785,514	16. India	7,516,400
17. Canada	6,850,000	17. United Kingdom	5,200,000	17. India	6,354,200	17. Canada	6,133,495
18. India	4,202,000	18. Egypt	4,300,000	18. United Kingdom	5,175,000	18. Neutral Zone	5,200,000
19. Oman	4,032,000	19. India	4,250,000	19. Egypt	4,300,000	19. Qatar	4,500,000
20. Egypt	3,600,000	20. Oman	4,012,000	20. Oman	4,071,160	20. Egypt	4,500,000
TOTAL WORLD	699,778,700	TOTAL WORLD	889,344,500	TOTAL WORLD	907,767,751	TOTAL WORLD	1,002,212,623

See notes and sources at end of table

Section II
Table 4d

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1991
1. Saudi Arabia	257,504,000
2. Iraq	100,000,000
3. United Arab Emirates	97,700,000
4. Kuwait	94,525,000
5. Iran	92,850,000
6. Venezuela	59,040,000
7. U.S.S.R	57,000,000
8. Mexico	51,983,000
9. United States	26,254,000
10. China	24,000,000
11. Libya	22,800,000
12. Nigeria	17,100,000
13. Indonesia	11,050,000
14. Algeria	9,200,000
15. India	7,997,100
16. Norway	7,609,412
17. Canada	5,782,949
18. Neutral Zone	5,000,000
19. Qatar	4,500,000
20. Egypt	4,500,000
TOTAL WORLD	999,113,472

(a) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations. Neutral Zone reserves are not included in the above figures.

SOURCE: 1975-1976: United States: American Petroleum Institute, Committee on Reserves and Productive Capacity.
1977-1991: United States: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas Liquids and Natural Gas Reserves.
1975-1980: Canada: Canadian Petroleum Association
1975-1991: Other Nations, Oil and Gas Journal, "Worldwide Report" issue.

USGS Estimates of United States Oil and Gas Reserves
(as of January 1,1987)

Region	Cumulative Production	Reserves		Undiscovered Recoverable Resources			Undiscovered Economically Recoverable Resources		
		Measured	Inferred and Indicated(a)	F95(d)	Mean(c)	F5(d)	F95(d)	Mean(c)	F5(d)
				Onshore and State Waters					
1. Alaska									
Oil	6.1	6.9	6.4	3.6	13.2	31.3	1.1	7.9	23.8
Gas	3.8	32.7	3	15.6	57.9	138.6	0.2	1.2	3.7
2. Pacific Coast									
Oil	20.3	4.7	1.2	1.5	3.5	6.6	1.4	3.4	6.5
Gas	33.2	3.9	2.6	5.5	11	19.1	5.1	10.6	18.8
3. Colorado Plateau and Basin and Range									
Oil	3.1	0.6	0.4	0.5	1.5	3.4	0.4	1.5	3.3
Gas	24.7	17.1	4.9	9.6	21.3	39.3	9.4	21	38.9
4. Rocky Mountains and Great Plains									
Oil	7.1	1.2	1.3	2.7	4.5	6.9	2.2	3.8	6
Gas	13.1	7.6	3.6	7	15.2	27.8	6.2	14.2	26.5
5. West Texas and Eastern New Mexico									
Oil	30.2	5.4	3.8	1.5	2.6	4	1.4	2.4	3.8
Gas	82.2	16.7	12.9	11.9	20.1	31.3	11.2	19.3	30.3
6. Gulf Coast									
Oil	43.1	3.7	5.7	2.4	4.2	6.7	2.2	4	6.5
Gas	285.6	33.6	42.3	51.2	82.5	123.6	47.7	79.3	121.6
7. Mid-Continent									
Oil	17.3	1.1	1.4	1.2	1.9	2.7	1.1	1.7	2.5
Gas	145.4	37.5	18.3	16.2	28.7	46	15	26.8	43.1
8. Eastern Interior									
Oil	8.4	0.5	0.7	1.3	1.8	2.4	1.3	1.8	2.4
Gas	33.9	8.2	5	10.8	17.2	25.7	10.1	16.3	24.5
9. Atlantic Coast									
Oil	0.1	0.1	0.1	0.1	0.2	0.5	0.1	0.2	0.5
Gas	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1
				Total Onshore and State Waters					
Oil	135.6	24.2	21.1	19.6	33.3	51.9	13.9	26.6	45.0
Gas	622.0	157.4	92.7	178.7	254.0	346.7	145.6	188.7	239.1
NGL	+ (b)	+ (b)	3.8	5.0	6.8	9.0	4.0	5.5	7.4
				Federal Offshore					
1A. Alaska									
Oil	0.0	0.0	0.0	0.6	3.4	9.4	0.0	0.9	4.8
Gas	0.0	0.0	0.0	4.7	16.8	39.4	0.0	0.0	0.0

See notes and sources at end of table

USGS Estimates of United States Oil and Gas Reserves
(as of January 1,1987)

Region	Cumulative Production	Reserves		Undiscovered Recoverable Resources			Undiscovered Economically Recoverable Resources		
		Measured	Inferred and Indicated(a)	F95(d)	Mean(c)	F5(d)	F95(d)	Mean(c)	F5(d)
2A. Pacific Coast									
Oil	0.4	1.3	0.2 (a)	0.9	3.4	8.3	0.4	2.0	5.5
Gas	0.3	2.1	0.3 (a)	3.5	8.0	15.1	1.8	5.2	11.0
6A. Gulf of Mexico									
Oil	6.9	4.0	0.4 (a)	4.9	8.6	13.6	2.6	5.0	8.6
Gas	75.2	47.0	5.8 (a)	63.0	103.3	156.9	36.0	64.3	103.7
9A. Atlantic Coast									
Oil	0.0	0.0	0.0	0.1	0.7	2.3	0.0	0.2	0.8
Gas	0.0	0.0	0.0	6.8	17.0	33.7	0.0	4.5	9.8
Total Federal Offshore									
Oil	7.3	5.3	0.6 (a)	9.2	16.1	25.6	4	8.2	14.3
Gas	75.5	49.2	6.1 (a)	97.8	145.1	204.8	44.3	74	113.8
NGL	+ (b)	+ (b)	0.2	0.6	1.8	3.8	0.2	0.8	1.8
Total United States									
Oil	142.9	29.5	21.7	33.2	49.4	69.9	20.7	34.8	53.8
Gas	697.5	206.6	98.8	306.8	399.1	507.2	208.2	262.7	325.5
NGL	24.4	8.2	4.0	6.1	8.6	11.5	4.6	6.3	8.4

NOTE: Oil in billion barrels; gas in trillion feet; natural gas liquies in billion barrels. NGL shown only in total.
(a) Indicated reserves are included with measured reserves estimated by the Minerals Management Service.
(b) Not known.
(c) Mean value totals may not be equal to the sums of the constituent means because numbers have been independently rounded.
(d) Fractile values (F95,F5) are not additive. Gas includes both nonassociated and associated-dissolved gas. F95 represents a 19 in 20 chance and F5 represents a 1 in 20 chance of the occurrence of at least the amount tabulated.

SOURCE: U.S. Department of Interior, U.S. Geological Survey, Estimates of Undiscovered Conventional Oil and Gas Resources in the United States--A Part of the Nation's Energy Endowment, 1989

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United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
New-Field Wildcat Wells									
1947	275	1,434,351	119	662,513	3,086	12,509,723	3,480	14,606,587	11.3
1948	366	1,791,437	135	899,514	3,795	16,048,313	4,296	18,739,264	11.7
1949	364	1,813,650	142	973,124	3,943	15,372,983	4,449	18,159,757	11.4
1950	462	2,345,714	130	800,276	4,698	18,972,164	5,290	22,118,254	11.2
1951	515	2,784,458	169	1,046,805	5,505	24,116,951	6,189	27,948,214	11.1
1952	556	3,122,962	185	1,310,227	5,957	28,068,745	6,698	32,501,934	11.1
1953	581	3,288,855	193	1,244,946	6,151	29,321,262	6,925	33,855,063	11.2
1954	639	3,577,418	263	1,761,483	6,478	30,149,120	7,380	35,488,021	12.2
1955	659	3,667,073	260	1,664,789	7,186	33,654,112	8,105	38,985,974	11.3
1956	628	3,690,270	240	1,762,688	7,874	36,913,273	8,742	42,366,231	9.9
1957	590	3,403,283	282	2,099,922	7,142	33,600,397	8,014	39,103,602	10.9
1958	518	2,963,220	268	2,077,923	6,164	29,161,083	6,950	34,202,226	11.3
1959	466	2,710,157	306	2,113,934	6,259	30,635,114	7,031	35,459,205	11.0
1960	448	2,614,001	297	2,136,721	6,575	31,130,339	7,320	35,881,061	10.2
1961	429	2,304,472	316	2,373,465	6,164	30,733,007	6,909	35,410,944	10.8
1962	470	2,670,875	317	2,380,930	6,007	29,832,533	6,794	34,884,338	11.6
1963	529	2,629,952	240	1,550,207	5,801	29,371,086	6,570	33,551,245	11.7
1964	440	2,623,873	252	1,933,484	5,931	30,028,416	6,623	34,585,773	10.4
1965	397	2,279,545	234	1,849,272	5,544	27,933,474	6,175	32,062,291	10.2
1966	403	2,437,921	232	1,888,322	5,523	27,052,375	6,158	31,378,618	10.3
1967	371	2,255,638	189	1,496,083	4,700	24,255,198	5,260	28,006,919	10.6
1968	321	2,012,067	127	1,046,358	4,757	27,190,387	5,205	30,248,812	8.6
1969	344	2,237,551	191	1,669,263	5,421	31,511,973	5,956	35,418,787	9.0
1970 (a)	292	1,952,666	189	1,607,386	4,348	25,412,904	4,829	28,972,956	10.0
1971	246	1,616,540	229	1,716,792	4,161	24,366,037	4,636	27,699,369	10.2
1972	287	1,861,279	270	2,056,516	4,454	26,780,915	5,011	30,698,710	11.1
1973	299	1,874,576	451	3,111,795	4,346	25,631,606	5,096	30,617,977	14.7
1974	396	2,447,814	466	3,172,478	5,084	29,289,318	5,946	34,909,610	14.5
1975	437	2,918,538	486	3,593,502	5,315	31,198,873	6,238	37,710,913	14.8
1976	458	3,013,230	527	3,786,300	4,871	28,898,383	5,856	35,697,923	16.8
1977	458	2,839,680	534	3,868,753	5,170	30,636,898	6,162	37,345,331	16.1
1978	484	3,164,038	644	4,297,038	5,603	34,550,903	6,731	42,011,979	16.8
1979	532	3,468,220	688	4,947,501	5,203	31,941,489	6,423	40,357,210	19.0
1980	664	4,310,733	695	4,764,991	5,973	36,802,580	7,332	45,878,304	18.5
1981	868	6,030,600	720	5,593,603	7,563	47,904,317	9,151	59,528,520	17.4
1982	707	4,613,633	618	4,575,677	6,061	37,840,415	7,386	47,029,725	17.9
1983	508	3,169,330	486	3,101,355	5,063	29,167,196	6,057	35,437,881	16.4
1984	554	3,806,830	429	2,877,818	5,545	34,525,367	6,528	41,210,015	15.1
1985	414	2,890,672	358	2,618,903	4,858	31,087,959	5,630	36,597,534	13.7
1986	270	1,751,349	218	1,446,276	2,996	18,551,934	3,484	21,749,559	14.0
1987	279	1,780,312	229	1,504,975	3,007	17,145,266	3,515	20,430,553	14.5
1988	226	1,520,246	238	1,647,342	2,807	17,369,625	3,271	20,537,213	14.2
1989	155	1,023,080	209	1,335,483	2,248	13,324,128	2,612	15,682,691	13.9

See notes and sources at end of table

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
New-Field Wildcat Wells									
1990	170	1,249,490	108	758,032	1,816	11,132,746	2,094	13,140,268	13.3

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
Total Exploratory									
1947	982	4,280,672	396	1,895,491	5,397	20,217,185	6,775	26,393,348	20.3
1948	1,098	4,883,179	365	2,306,271	6,550	25,561,647	8,013	32,751,097	18.3
1949	1,406	5,950,460	424	2,409,230	7,228	26,438,601	9,058	34,798,291	20.2
1950	1,583	6,861,758	431	2,356,021	8,292	30,957,394	10,306	40,175,173	19.5
1951	1,763	8,125,473	454	2,495,592	9,539	38,722,629	11,756	49,343,694	18.9
1952	1,776	8,490,701	559	3,393,813	10,090	43,730,875	12,425	55,615,389	18.8
1953	1,981	9,431,700	699	3,952,118	10,633	47,279,793	13,313	60,663,611	20.1
1954	1,985	9,409,404	726	4,399,196	10,389	45,791,944	13,100	59,600,544	20.7
1955	2,236	10,774,397	874	5,212,258	11,832	53,219,667	14,942	69,206,322	20.8
1956	2,267	11,110,534	822	5,179,111	13,118	58,047,439	16,207	74,337,084	19.1
1957	1,945	9,794,182	865	5,966,961	11,904	53,420,086	14,714	69,181,229	19.1
1958	1,745	8,712,007	822	5,472,151	10,632	47,299,753	13,199	61,483,911	19.4
1959	1,702	8,544,972	912	6,031,180	10,577	48,676,369	13,191	63,252,521	19.8
1960	1,321	6,829,122	868	5,466,439	9,515	43,535,075	11,704	55,830,636	18.7
1961	1,157	5,899,555	813	5,249,616	9,022	38,054,853	10,992	49,204,024	17.9
1962	1,211	6,205,402	771	5,187,452	8,815	44,103,834	10,797	55,496,688	18.4
1963	1,314	6,409,095	664	4,229,802	8,686	42,846,565	10,664	53,485,462	18.5
1964	1,219	6,715,355	577	4,203,534	8,951	42,655,665	10,747	53,574,554	16.7
1965	946	5,365,758	515	3,757,004	8,005	45,319,365	9,466	54,442,127	15.4
1966	1,030	5,880,029	578	4,881,198	8,705	44,461,934	10,313	55,223,161	15.6
1967	986	5,677,675	532	3,978,526	7,360	38,182,439	8,878	47,838,640	17.1
1968	954	5,642,235	486	3,740,781	7,439	41,575,022	8,879	50,958,038	16.2
1969	1,084	6,563,032	616	4,984,622	8,001	45,918,308	9,701	57,465,962	17.5
1970 (a)	763	4,729,423	478	3,666,020	6,195	35,135,039	7,436	43,530,482	16.7
1971	664	3,785,858	472	3,612,832	5,995	34,563,763	7,131	41,962,453	15.9
1972	690	4,042,124	659	4,872,314	6,202	36,364,835	7,551	45,279,273	17.9
1973	654	4,046,218	1,079	7,074,241	6,038	34,928,875	7,771	46,049,334	22.3
1974	870	5,068,782	1,205	7,741,846	6,894	38,861,593	8,969	51,672,221	23.1
1975	991	5,822,068	1,261	8,468,203	7,207	40,755,363	9,459	55,045,634	23.8
1976	1,100	6,493,760	1,361	9,187,178	6,856	38,211,252	9,317	53,892,190	26.4
1977	1,181	6,870,706	1,557	10,204,224	7,402	41,136,466	10,140	58,211,396	27.0
1978	1,189	7,098,457	1,786	11,780,690	8,055	46,616,063	11,030	65,495,210	27.0
1979	1,335	7,991,579	1,921	12,634,380	7,479	42,736,704	10,735	63,362,663	30.3
1980	1,777	10,109,549	2,085	13,710,438	9,008	49,992,439	12,870	73,812,426	30.0
1981	2,661	15,418,060	2,522	16,996,454	12,247	68,653,990	17,430	101,068,504	29.7
1982 (b)	2,481	13,415,348	2,172	14,713,785	11,229	60,301,560	15,882	88,430,693	29.3
1983	2,129	10,544,047	1,654	10,235,772	10,062	48,472,448	13,845	69,252,267	27.3
1984	2,334	12,621,000	1,588	9,943,000	11,216	58,759,000	15,138	81,323,000	25.9
1985	1,724	10,068,000	1,283	8,694,000	9,201	49,571,000	12,208	68,333,000	24.6
1986	993	5,990,000	749	5,082,000	5,414	29,973,000	7,156	41,045,000	24.3

See notes and sources at end of table

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
Total Exploratory									
1987	894	5,294,000	708	4,693,000	5,301	27,370,000	6,903	37,357,000	23.2
1988	813	4,924,000	692	4,706,000	4,845	27,050,000	6,350	36,680,000	23.7
1989	599	3,541,000	670	4,313,000	4,046	21,730,000	5,315	29,584,000	23.9
1990	637	4,135,000	503	3,582,000	3,615	20,051,000	4,755	27,768,000	24.0

(a) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970, the statistics show the year in which the wells were completed regardless of the time frame in which they were reported to API.
(b) Data beginning with 1982 are for estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15d (state data), which represent reported completions.

SOURCE: 1947-1966: American Association of Petroleum Geologists.
1967-1969: API, Quarterly Review of Drilling Statistics.
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1990: API, Quarterly Completions Reports.

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total	Footage
Development Wells(a)								
1947	17,017		2,909		4,141		24,067	87,667,652
1948	21,487		2,532		5,476		29,495	104,640,903
1949	20,636		2,463		5,499		28,598	103,204,709
1950	22,847		2,412		6,465		31,724	119,112,827
1951	21,690		2,576		7,114		31,380	122,987,306
1952	21,690		2,696		7,528		31,914	131,574,611
1953	23,781		3,107		7,816		34,704	138,175,389
1954	27,788		3,251		8,779		39,818	159,385,456
1955	29,331		2,739		8,910		40,980	157,063,678
1956	28,463		3,721		8,720		40,904	161,564,916
1957	26,067		3,755		9,079		38,901	152,719,310
1958	22,833		3,981		8,411		35,225	136,740,181
1959	24,098		4,117		8,688		36,903	145,978,895
1960	19,865		4,390		8,059		32,314	134,872,036
1961	19,944		4,851		8,084		32,879	142,912,090
1962	20,038		5,077		7,867		32,982	143,061,953
1963	18,974		4,087		7,661		30,722	130,871,538
1964	19,401		4,278		8,537		32,216	136,347,316
1965	17,815		4,209		8,020		30,044	126,984,888
1966	15,417	59,562,661	3,589	19,562,196	7,065	28,097,191	26,071	107,222,048
1967	14,343	52,955,743	3,127	17,601,654	5,886	22,960,426	23,356	93,517,823
1968	13,377	53,874,620	2,970	16,975,492	5,373	23,162,297	21,720	94,012,409
1969	13,284	55,018,970	3,467	19,177,390	5,735	25,445,537	22,486	99,641,897
1970 (c)	12,280	52,101,320	3,553	19,950,845	4,904	22,976,880	20,737	95,029,045
1971	11,239	45,271,862	3,511	19,807,020	4,387	20,214,617	19,137	85,293,499
1972	10,747	45,441,840	4,825	25,384,401	4,811	22,691,048	20,383	93,517,289
1973	9,597	40,712,974	5,896	31,137,367	4,428	21,525,063	19,921	93,375,404
1974	12,794	47,001,530	5,963	30,739,691	5,311	24,362,957	24,068	102,104,178
1975	15,988	61,103,799	6,908	36,012,511	6,529	28,878,049	29,425	125,994,359
1976	16,597	62,333,936	8,077	40,010,511	6,949	31,052,949	31,623	133,397,396
1977	17,519	68,320,374	10,562	53,295,651	7,634	35,868,457	35,715	157,484,482
1978	17,876	69,522,882	12,619	63,809,274	8,536	39,558,882	39,031	172,891,038
1979	19,354	74,150,995	13,245	67,240,506	8,556	38,931,266	41,155	180,322,767
1980	30,343	113,154,164	15,047	76,641,633	11,226	47,836,614	56,616	237,632,411
1981	39,859	153,287,896	17,220	88,782,627	14,725	63,381,426	71,804	305,451,949
1982 (d)	36,771	134,817,629	16,638	90,474,536	14,598	61,660,061	68,007	286,952,226
1983	35,267	125,726,889	12,851	66,429,973	13,775	55,208,335	61,893	247,365,197
1984	42,138	155,025,000	13,374	71,706,000	14,333	60,742,000	69,845	287,473,000
1985	34,734	132,253,000	11,634	62,200,000	12,230	53,992,000	58,598	248,445,000
1986	17,605	68,614,000	7,306	37,776,000	6,948	30,206,000	31,859	136,596,000
1987	15,547	60,599,000	7,406	38,305,000	6,397	27,587,000	29,350	126,491,000
1988	12,795	52,929,000	7,711	39,725,000	5,445	25,607,000	25,951	118,261,000
1989	9,939	40,003,000	8,482	42,875,000	4,455	20,733,000	22,876	103,611,000
1990	10,571	46,781,000	9,396	45,585,000	4,258	19,850,000	24,225	112,216,000

See notes and sources at end of table

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total Wells	Footage	Service Strat & Core	Grand Total
Total Wells										
1947	17,999		3,305		9,538		30,842	114,061,000	2,280	33,122
1948	22,585		2,897		12,026		37,508	137,392,000	2,270	39,778
1949	22,042		2,887		12,727		37,656	138,003,000	1,382	39,038
1950	24,430		2,843		14,757		42,030	159,288,000	1,249	43,279
1951	23,453		3,030		16,653		43,136	172,331,000	1,380	44,516
1952	23,466		3,255		17,618		44,339	187,190,000	1,482	45,821
1953	25,762		3,806		18,449		48,017	198,839,000	1,262	49,279
1954	29,773		3,974		19,168		52,915	218,986,000	1,012	53,927
1955	31,567		3,608		20,742		55,917	226,270,000	760	56,677
1956	30,737		4,543		21,797		57,077	233,902,000	1,049	58,126
1957	28,012		4,620		20,983		53,615	221,900,539	1,409	55,024
1958	24,578		4,803		19,043		48,424	198,224,092	1,615	50,039
1959	25,800		5,029		19,265		50,094	209,231,416	1,670	51,764
1960	21,186		5,258		17,574		44,018	190,702,672	2,733	46,751
1961	21,101		5,664		17,106		43,871	192,116,114	3,091	46,962
1962	21,249		5,848		16,682		43,779	198,558,641	2,400	46,179
1963	20,288		4,751		16,347		41,386	184,357,000	2,267	43,653
1964	20,620		4,855		17,488		42,963	189,921,870	2,273	45,236
1965	18,761		4,724		16,025		39,510	181,427,015	1,922	41,432
1966	16,447	65,442,690	4,167	24,443,394	15,770	72,559,125	36,384	162,445,209	2,152	38,536
1967	15,329	58,633,418	3,659	21,580,180	13,246	61,142,865	32,234	141,356,463	1,584	33,818
1968	14,331	59,516,855	3,456	20,716,273	12,812	64,737,319	30,599	144,970,447	2,315	32,914
1969	14,368	61,582,002	4,083	24,162,012	13,736	71,363,845	32,187	157,107,859	1,866	34,053
1970 (c)	13,043	56,830,743	4,031	23,616,865	11,099	58,111,919	28,173	138,559,527	1,369	29,542
1971	11,903	49,057,720	3,983	23,419,852	10,382	54,778,380	26,268	127,255,952	1,414	27,682
1972	11,437	49,483,964	5,484	30,256,715	11,013	59,055,883	27,934	138,796,562	1,486	29,420
1973	10,251	44,759,192	6,975	38,211,608	10,466	56,453,938	27,692	139,424,738	970	28,662
1974	13,664	52,070,312	7,168	38,481,537	12,205	63,224,550	33,037	153,776,399	1,378	34,415
1975	16,979	66,925,867	8,169	44,480,714	13,736	69,633,412	38,884	181,039,993	1,920	40,804
1976	17,697	68,827,696	9,438	49,197,689	13,805	69,264,201	40,940	187,289,586	1,674	42,614
1977	18,700	75,191,080	12,119	63,499,875	15,036	77,004,923	45,855	215,695,878	1,453	47,308
1978	19,065	76,621,339	14,405	75,589,964	16,591	86,174,945	50,061	238,386,248	1,610	51,671
1979	20,689	82,142,574	15,166	79,874,886	16,035	81,667,970	51,890	243,685,430	1,472	53,362
1980	32,120	123,263,713	17,132	90,352,071	20,234	97,829,053	69,486	311,444,837	2,076	71,562
1981	42,520	168,705,956	19,742	105,779,081	26,972	132,035,416	89,234	406,520,453	2,366	91,600
1982 (d)	39,252	148,232,977	18,810	105,188,321	25,827	121,961,621	83,889	375,382,919	2,212	86,101
1983	37,396	136,270,936	14,505	76,665,745	23,837	103,680,783	75,738	316,617,464	1,984	77,722
1984	44,472	167,646,000	14,962	81,649,000	25,549	119,501,000	84,983	368,796,000	2,190	87,173
1985	36,458	142,321,000	12,917	70,894,000	21,431	103,563,000	70,806	316,778,000	1,680	72,486
1986	18,598	74,604,000	8,055	42,858,000	12,362	60,179,000	39,015	177,641,000	769	39,784
1987	16,441	65,893,000	8,114	42,998,000	11,698	54,957,000	36,253	163,848,000	877	37,130

See notes and sources at end of table

Section III
Table 2b

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total Wells	Footage	Service Strat & Core	Grand Total
Total Wells										
1988	13,608	57,853,000	8,403	44,431,000	10,290	52,657,000	32,301	154,941,000	953	33,254
1989	10,538	43,544,000	9,152	47,188,000	8,501	42,463,000	28,191	133,195,000	608	28,799
1990	11,208	50,916,000	9,899	49,167,000	7,873	39,901,000	28,980	139,984,000	433	29,413

(a) The number of development wells for 1947-1965 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(b) Footage not available prior to 1966.

(c) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970
were completed regardless of the time frame in which they were reported to API.

(d) Data beginning with 1982 are for estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15d (state data), which represent reported completions.

SOURCE: 1947-1965: American Association of Petroleum Geologists and Oil and Gas Journal.
1966-1969: API, Quarterly Review of Drilling Statistics
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1990: API, Quarterly Completion Reports.

United States Wells Drilled by Depth Interval

Year	Depth Interval (Feet) Under 5,000	5,000-9,999	10,000-14,999	15,000-over	Total Wells Drilled
1959	34,867	11,719	2,757	220	49,563
1960	30,575	10,485	2,835	238	44,133
1961	30,289	10,658	2,789	252	43,988
1962	29,496	11,103	3,062	283	43,944
1963	28,524	10,342	2,723	264	41,853
1964	29,913	10,649	2,604	320	43,486
1965	25,697	11,081	2,491	327	39,596
1966	22,178	9,703	2,251	389	34,521
1967	20,359	8,668	2,130	381	31,538
1968	17,999	8,958	2,264	355	29,576
1969	17,067	9,690	2,378	346	29,481
1970	16,941	8,644	2,142	446	28,173
1971	15,909	7,947	2,005	407	26,268
1972	16,736	8,441	2,226	531	27,934
1973	16,272	8,848	2,105	467	27,692
1974	20,822	9,617	2,178	420	33,037
1975	24,632	11,299	2,504	449	38,884
1976	26,257	11,592	2,707	384	40,940
1977	28,923	13,350	3,121	461	45,855
1978	31,717	14,103	3,610	631	50,061
1979	33,253	14,121	3,824	692	51,890
1980	46,320	18,083	4,270	813	69,486
1981	58,780	23,884	5,578	992	89,234
1982 (a)	56,424	20,574	5,602	1289	83,889
1983	52,656	18,051	4,261	768	75,738
1984	56,838	22,280	5,154	711	84,983
1985	46,337	19,067	4,729	673	70,806
1986	24,989	10,769	2,846	411	39,015
1987	23,077	10,373	2,459	344	36,253
1988	19,388	9,864	2,635	414	32,301
1989	17,113	8,520	2,252	306	28,191
1990	17,258	8,892	2,499	331	28,980

(a) Data beginning with 1982 have been revised to reflect estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15 (state data), which represent reported completions.

SOURCE: 1959-1969: API, Joint Association Survey.
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1990: API, Quarterly Completion Reports.

United States Petroleum Geophysical Exploration
(Crew Months)

	Seismic			Gravity-Magnetic-Other			All Methods		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total(b)
1951	(a)	(a)	6,537	(a)	(a)	802	(a)	(a)	7,339
1952	(a)	(a)	7,958	(a)	(a)	965	(a)	(a)	8,923
1953	(a)	(a)	7,666	(a)	(a)	1,006	(a)	(a)	8,672
1954	(a)	(a)	6,863	(a)	(a)	1,106	(a)	(a)	7,969
1955	2,791	4,299	7,090	419	655	1,150 (c)	3,210	4,954	8,240 (c)
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174
1964	1,360	2,742	4,102	76	228	309 (d)	1,436	2,970	4,411 (d)
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471
1966	1,496	2,176	3,672	57	88	163 (e)	1,553	0	3,835 (e)
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496
1968	1,138	2,130	3,268	15	104	122 (f)	1,153	2,234	3,390 (f)
1969	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472
1970	781	1,559	2,340	12	169	181	793	1,728	2,521
1971	656	1,999	2,655	10	97	107	666	2,096	2,762
1972	622	2,394	3,016	6	118	124	628	2,512	3,140
1973	607	2,392	2,999	18	56	74	625	2,448	3,073
1974	540	3,122	3,662	(a)	(a)	230	(a)	(a)	3,892
1975	543	2,860	3,416 (g)	(a)	(a)	271	(a)	(a)	3,687
1976	484	2,646	3,140 (g)	(a)	(a)	245	(a)	(a)	3,385
1977	499	2,564	3,063 (g)	(a)	(a)	120	(a)	(a)	3,183
1978	478	3,670	4,148 (g)	(a)	(a)	196	(a)	(a)	4,344
1979	829	3,571	4,400 (g)	(a)	(a)	199	(a)	(a)	4,599
1980	1,292	3,669	4,962	(a)	(a)	311	(a)	(a)	5,273
1981	1,038	4,839	5,877	(a)	(a)	382	(a)	(a)	6,259
1982	653	5,023	5,676	(a)	(a)	492	(a)	(a)	6,168
1983	588	4,356	4,944	(a)	(a)	334	(a)	(a)	5,278
1984	714	3,984	4,698	(a)	(a)	217	(a)	(a)	4,915
1985	470	3,024	3,494	(a)	(a)	279	(a)	(a)	3,773
1986	401	1,615	2,016	(a)	(a)	84	(a)	(a)	2,100
1987	283	1,278	1,561	(a)	(a)	258	(a)	(a)	1,819
1988	201	1,560	1,761	(a)	(a)	242	(a)	(a)	2,003
1989	112	1,314	1,426	(a)	(a)	126	(a)	(a)	1,552
1990	121	919	1,040	(a)	(a)	70	(a)	(a)	1,110

See notes and sources at end of table

United States Petroleum Geophysical Exploration
(Crew Months)

(a) Company-contractor data are not available.
(b) Percentages do not equal 100 percent due to unallocated crew months included in total.
(c) Includes 76 magnetometer crew months not allocated to either company or contractor.
(d) Includes 5 other crew months not allocated to either company or contractor.
(e) Includes 18 magnetometer crew months not allocated to either company or contractor.
(f) Includes 3 magnetometer crew months not allocated to either company or contractor.
(g) Total includes government and university activity unallocated to company-contractor totals.

SOURCE: Society of Exploration Geophysicists, Annual Reports.

Section III
Table 5

International Petroleum Geophysical Exploration
(Crew Months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total World(e)
1954	7,969	1,652	1,210	10,831	(a)	(a)	(a)	(a)	12,424
1955	8,240	1,599	1,148	10,987	(a)	(a)	(a)	(a)	13,430
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	13,627
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	13,655
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	12,590
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	11,481
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	10,526
1961	5,024	664	995	6,683	1,314	1,472	213	521	10,203
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	9,199
1963	4,174	745	1,153	6,072	1,094	978	233	968	9,345
1964	4,411	673	1,133	6,217	1,035	766	283	909	9,210
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	9,689
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	9,040
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	9,055
1968	3,390	970	1,012	5,372	711	679	296	708	7,766
1969	3,472	960	898	5,330	676	864	460	935	8,265
1970	2,521	806	1,052	4,379	725	802	286	1,009	7,201
1971	2,762	334	1,105	4,201	738	915	254	1,578	7,686
1972	3,140	503	1,146	4,789	692	938	239	957	7,615
1973	3,073	585	1,236	4,894	627	798	294	950	7,563
1974	3,892	487	1,572	5,951	702	835	389	1,008	8,897 (b)
1975	3,687	597 (c)	790 (c)	5,074	679 (c)	676 (c)	306 (c)	440 (c)	7,185 (b)
1976	3,385	421 (c)	559 (c)	4,365	592 (c)	674 (c)	351 (c)	338 (c)	6,353 (b)
1977	3,183	766	480 (d)	4,429	646	806	309	254	6,497 (b)
1978	4,148	782	980	5,910	535	613	330	280	7,668 (b)
1979	4,400	761	485	5,646	647	674	345	372	7,746 (b)
1980	4,962	695	645	6,302	569	688	346	520	8,565 (b)
1981	5,877	584	1,261	7,722	733	973	452	436	10,706 (b)
1982	5,676	527	808	7,011	798	755	480	752	9,821 (b)
1983	4,944	658	703	6,305	744	660	359	700	8,789 (b)
1984	4,698	616	612	5,926	770	658	351	703	8,442 (b)
1985	3,494	899	751	5,144	756	581	347	560	7,388 (b)
1986	2,016	453	676	3,145	703	558	295	636	5,337 (b)
1987	1,561	382	586	2,519	435	346	295	522	4,142 (b)
1988	1,761	448	695	2,904	564	404	355	534	4,768 (b)
1989	1,426	436	587	2,449	599	634	312	495	4,490 (b)
1990	998	228	493	1,719	555	449	335	769	3,899 (b)

(b) includes crew months allocated to international waters and other areas not specifically identified.
(c) Data from 1978 to 1990 and selected items from 1975 and 1976 are seismic activity only.
(d) Only partial data for Mexico included.
(e) Total is incomplete because figures for all countries are not available.

SOURCE: Society of Exploration Geophysicists, Annual Reports

Historical Record: Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(b) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	3	7	11	52	129	48	250	73	3,325	2.20
1948	2	2	9	59	241	33	346	72	4,087	1.76
1949	9	4	9	65	172	78	337	87	4,238	2.05
1950	3	10	15	69	283	56	436	97	5,149	1.88
1951	1	1	13	71	345	61	492	86	6,044	1.42
1952	2	2	11	70	361	90	536	85	6,440	1.32
1953	1	6	17	88	283	134	529	112	6,634	1.69
1954	2	3	12	82	308	179	586	99	7,033	1.41
1955	2	5	13	95	329	178	622	115	7,743	1.49
1956	0	2	2	92	333	124	553	96	8,436	1.14
1957	1	1	7	63	339	186	597	72	7,556	0.95
1958	3	2	16	82	229	157	489	103	6,618	1.56
1959	0	4	3	52	255	110	424	59	7,031	0.84
1960	1	3	5	35	283	143	470	44	7,320	0.60
1961	0	1	4	47	246	68	366	52	6,909	0.75
1962	0	1	3	44	264	78	390	48	6,794	0.71
1963	2	1	7	41	341	100	492	51	6,570	0.78
1964	0	3	9	48	248	109	417	60	6,623	0.91
1965	2	3	5	35	268	63	376	45	6,175	0.73
1966	3	1	3	40	336	6	389	47	6,158	0.76
1967	1	4	2	39	278	24	348	46	5,271	0.87
1968	3	5	1	38	210	63	320	47	5,205	0.90
1969	2	3	2	41	245	28	321	48	5,956	0.81
1970	6	0	5	36	199	17	263	47	4,468	1.05
1971	0	0	3	29	183	13	228	32	4,401	0.73
1972	0	1	0	42	232	12	287	43	5,079	0.85
1973	0	2	4	26	251	7	290	32	4,981	0.64
1974	0	1	0	40	293	7	341	41	5,645	0.73
1975	0	2	3	37	368	8	418	42	6,096	0.69
1976	1	2	5	39	391	20	458	47	5,825	0.81
1977	0	3	2	27	406	14	452	32	6,091	0.53
1978	0	1	0	20	378	11	410	21	6,469	0.32
1979	0	0	3	20	432	19	474	23	6,398	0.36
1980	0	0	1	33	576	34	644	34	7,020	0.48
1981	0	0	1	37	602	48	688	38	8,034	0.47

See notes and sources at end of table

Historical Record: Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(b) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(a)			
	(SIGNIFICANT)									
1982	0	0	0	33	595	34	662	33	7,783	0.42
TOTAL	50	86	206	1,767	11,232	2,360	15,701	2,109	221,605	0.95

(a) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42 No. 9 (Sept. 1958), p. 2043.

A Fields	*Over 50 million barrels*
B Fields	*25-50 million barrels*
C Fields	*10-25 million barrels*
D Fields	*1-10 million barrels*
E Fields	*Less than 1 million barrels*
F Fields	*Abandoned as non-profitable*

(b) Includes oil wells, gas wells and dry holes.

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7

Historical Record: Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	5	5	4	30	35	19	98	44	3,325	1.32
1948	3	3	7	33	35	19	100	46	4,087	1.13
1949	8	7	8	34	43	12	112	57	4,238	1.34
1950	4	4	8	28	44	19	107	44	5,149	0.85
1951	10	4	10	41	57	16	138	65	6,044	1.08
1952	10	7	7	44	65	15	148	68	6,440	1.06
1953	3	3	6	40	89	18	159	52	6,634	0.78
1954	4	1	12	51	104	39	211	68	7,033	0.97
1955	2	3	11	33	107	43	199	49	7,743	0.63
1956	2	4	5	52	92	26	181	63	8,436	0.75
1957	9	5	15	70	105	30	234	99	7,556	1.31
1958	3	6	9	55	143	25	241	73	6,618	1.10
1959	4	1	6	51	135	28	225	62	7,031	0.88
1960	6	2	9	63	135	22	237	80	7,320	1.09
1961	4	3	4	35	156	40	242	46	6,909	0.67
1962	3	4	11	61	161	52	292	79	6,794	1.16
1963	4	1	7	38	124	41	215	50	6,570	0.76
1964	4	1	11	37	136	37	226	53	6,623	0.80
1965	1	3	10	38	142	30	224	52	6,175	0.84
1966	1	3	7	36	142	12	201	47	6,158	0.76
1967	4	5	6	26	111	12	164	41	5,271	0.78
1968	1	5	7	27	83	14	137	40	5,205	0.77
1969	3	2	4	35	116	14	174	44	5,956	0.74
1970	4	3	4	25	107	14	157	36	4,468	0.81
1971	1	2	5	43	135	11	197	51	4,401	1.16
1972	3	4	5	49	212	2	275	61	5,079	1.20
1973	1	5	8	55	320	23	412	69	4,981	1.39
1974	1	3	5	58	349	11	427	67	5,645	1.19
1975	2	1	4	66	347	5	425	73	6,096	1.20
1976	2	1	9	61	426	11	510	73	5,826	1.25
1977	0	1	3	53	393	11	461	57	6,091	0.94
1978	1	2	4	49	402	10	468	56	6,469	0.87
1979	0	2	5	28	621	10	666	35	6,398	0.55
1980	0	1	6	44	622	15	688	51	7,020	0.73
1981	1	2	3	51	550	19	626	57	8,034	0.71

See notes and sources at end of table

Historical Record:
Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	4	29	531	19	583	33	7,783	0.42
TOTAL	114	109	249	1,569	7,375	744	10,160	2,041	221,606	0.92

(a) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields......................Over 300 billion cubic feet
B Fields........................150-300 billion cubic feet
C Fields........................60-150 billion cubic feet
D Fields..........................6-60 billion cubic feet
E Fields............................6 billion cubic feet
F Fields......................Abandoned as non-profitable

(b) Includes oil wells, gas wells and dry holes.

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8

Historical Record: Number of U.S. New Field Oil and Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	8	12	15	82	164	67	348	117	3,325	3.52
1948	5	5	16	92	276	52	446	118	4,087	2.89
1949	17	11	17	99	215	90	449	144	4,238	3.40
1950	7	14	23	97	327	75	543	141	5,149	2.74
1951	11	5	23	112	402	77	630	151	6,044	2.50
1952	12	9	18	114	426	105	684	153	6,440	2.38
1953	4	9	23	128	372	152	688	164	6,634	2.47
1954	6	4	24	133	412	218	797	167	7,033	2.37
1955	4	8	24	128	436	221	821	164	7,743	2.12
1956	2	6	7	144	425	150	734	159	8,436	1.88
1957	10	6	22	133	444	216	831	171	7,556	2.26
1958	6	8	25	137	372	182	730	176	6,618	2.66
1959	4	5	9	103	390	138	649	121	7,031	1.72
1960	7	5	14	98	418	165	707	124	7,320	1.69
1961	4	4	8	82	402	108	608	98	6,909	1.42
1962	3	5	14	105	425	130	682	127	6,794	1.87
1963	6	2	14	79	465	141	707	101	6,570	1.54
1964	4	4	20	85	384	146	643	113	6,623	1.71
1965	3	6	15	73	410	93	600	97	6,175	1.57
1966	4	4	10	76	478	18	590	94	6,158	1.53
1967	5	9	8	65	389	36	512	87	5,271	1.65
1968	4	10	8	65	293	77	457	87	5,205	1.67
1969	5	5	6	76	361	42	495	92	5,956	1.54
1970	10	3	9	61	306	31	420	83	4,468	1.86
1971	1	2	8	72	318	24	425	83	4,401	1.89
1972	3	5	5	91	444	14	562	104	5,079	2.05
1973	1	7	12	81	571	30	702	101	4,981	2.03
1974	1	4	5	98	642	18	768	108	5,645	1.91
1975	2	3	7	103	715	13	843	115	6,096	1.89
1976	3	3	14	100	817	31	968	120	5,826	2.06
1977	0	4	5	80	799	25	913	89	6,091	1.46
1978	1	3	4	69	780	21	878	77	6,469	1.19
1979	0	2	8	48	1,053	29	1,140	58	6,398	0.91
1980	0	1	7	77	1,198	49	1,332	85	7,020	1.21
1981	1	2	4	88	1,152	67	1,314	95	8,034	1.18

See notes and sources at end of table

Section III
Table 8a

Historical Record:
Number of U.S. New Field Oil and Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History: A	B	C	D	E	F	Total(a)	Total(a) Significant Size Oil Fields	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	(SIGNIFICANT)							A-D INCLUSIVE (A+B+C+D)		
1982	0	0	4	62	1,126	53	1,245	66	7,783	0.85
TOTAL	164	195	455	3,336	18,607	3,104	25,861	4,150	221,606	1.87

(a) Differs from year-of-discovery total because of consolidations.

A Fields....................Over 50 million barrels or over 300 billion cubic feet
B Fields.......................25-50 million barrels or 150-300 billion cubic feet
C Fields.......................10-25 million barrels or 60-150 billion cubic feet
D Fields...........................1-10 million barrels or 6-60 billion cubic feet
E Fields.............Less than 1 million barrels or less than 6 billion cubic feet
F Fields..Abandoned as non-profitable

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

United States
Estimated Drilling Costs by Well Classification, Onshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells							**Gas Wells**				
1959	25,136	94,331.7	1,232,591.0	3,753	49,037	13.07	4,974	26,688.7	460,307.0	5,366	92,543	17.25
1960	20,933	81,168.8	914,306.8	3,878	43,678	11.26	5,175	28,035.4	487,477.5	5,417	94,199	17.39
1961	20,868	79,736.6	971,144.0	3,821	46,537	12.18	5,588	29,454.2	489,799.2	5,271	87,652	16.63
1962	20,060	83,168.5	1,041,452.5	4,146	51,917	12.52	5,743	30,171.3	511,755.7	5,254	89,109	16.96
1963	20,306	77,410.4	940,225.3	3,812	46,303	12.15	4,689	24,626.5	392,325.1	5,252	83,669	15.93
1964	20,535	76,376.6	898,606.9	3,719	43,760	11.77	4,749	25,991.9	447,248.1	5,473	94,177	17.21
1965	18,370	74,627.6	873,769.0	4,062	47,565	11.71	4,654	25,113.4	418,669.6	5,396	89,959	16.67
1966	15,312	60,104.3	745,319.5	3,925	48,676	12.40	3,914	23,217.3	446,177.6	5,932	113,995	19.22
1967	14,196	53,676.0	692,118.9	3,781	48,755	12.89	3,390	19,821.8	401,857.7	5,847	118,542	20.27
1968	13,010	51,828.6	699,182.3	3,984	53,742	13.49	3,145	18,536.1	387,216.3	5,894	123,121	20.89
1969	12,330	52,726.3	790,280.2	4,276	64,094	14.99	3,705	21,237.3	439,917.4	5,732	118,736	20.71
1970	12,014	51,734.0	806,429.0	4,306	67,124	15.59	3,651	21,044.0	478,705.0	5,764	131,116	22.75
1971	11,096	45,672.2	731,152.7	4,116	65,893	16.01	3,494	20,086.7	471,309.2	5,749	134,891	23.46
1972	10,421	45,126.0	792,435.2	4,330	76,042	17.56	4,856	26,424.0	626,559.7	5,442	129,028	23.71
1973	9,407	41,980.9	825,029.7	4,463	87,704	19.65	6,243	34,368.7	843,960.4	5,505	135,185	24.56
1974	12,820	49,662.3	1,270,731.1	3,874	99,121	25.59	6,540	35,552.2	1,114,933.6	5,436	170,479	31.36
1975	15,993	63,641.3	2,003,955.3	3,979	125,302	31.49	7,383	40,613.6	1,667,555.1	5,501	225,864	41.06
1976	16,603	65,636.2	2,227,303.1	3,953	134,151	33.93	8,631	45,714.7	2,011,603.6	5,297	233,067	44.00
1977	17,789	72,090.0	2,654,029.9	4,053	149,195	36.82	11,086	58,791.0	2,924,519.8	5,303	263,803	49.74
1978	17,492	71,596.0	3,157,053.7	4,093	180,486	44.10	12,887	68,610.9	3,996,244.5	5,324	310,099	58.25
1979	18,894	77,021.0	3,983,757.0	4,076	210,848	51.72	13,626	72,733.1	5,010,426.4	5,338	367,711	68.89
1980	28,236	114,228.1	6,924,130.2	4,045	245,223	60.62	14,781	81,400.8	6,720,984.8	5,507	454,704	82.57
1981	38,310	158,514.8	11,948,475.5	4,138	311,889	75.38	17,018	95,089.6	10,125,963.9	5,588	595,015	106.49
1982	35,379	140,035.3	10,895,210.4	3,958	307,957	77.80	16,610	96,211.9	12,572,614.1	5,792	756,930	130.68
1983	33,026	126,511.5	8,004,608.8	3,831	242,373	63.27	12,626	69,362.9	6,642,729.5	5,494	526,115	95.77
1984	38,490	149,635.8	8,891,781.7	3,888	231,015	59.42	14,611	78,856.6	5,986,152.1	5,397	409,702	75.91
1985	33,431	133,489.2	7,875,373.3	3,993	235,571	59.00	13,547	72,431.8	5,747,252.8	5,347	424,245	79.35
1986	17,865	72,708.4	4,143,102.8	4,070	231,912	56.98	7,144	39,023.8	2,902,637.2	5,462	406,304	74.38
1987	15,102	62,430.3	3,073,405.2	4,134	203,510	49.23	7,113	38,125.7	2,338,144.9	5,360	328,714	61.33
1988	12,251	53,921.9	2,947,465.4	4,401	240,590	54.66	7,628	40,358.7	2,907,354.0	5,291	381,142	72.04
1989	9,707	41,218.5	2,302,655.0	4,246	237,216	55.86	8,607	44,281.7	3,346,522.3	5,145	388,814	75.57
1990	11,336	52,078.2	3,292,231.4	4,594	290,423	63.22	9,265	47,121.7	3,670,117.6	5,086	396,127	77.89

See notes and sources at end of table

Section III
Table 9a

United States
Estimated Drilling Costs by Well Classification, Onshore

Year	Dry Holes						Onshore Wells Drilled					
	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(a)							49,197	198,056.0	2,447,219.3	4,026	49,743	12.36
1955(a)							55,517	221,197.2	2,439,924.0	3,984	43,949	11.03
1956(a)							56,646	227,580.3	2,669,624.0	4,018	47,128	11.73
1959	18,977	79,735.0	775,839.0	4,202	40,883	9.73	49,087	200,755.5	2,468,737.0	4,090	50,293	12.30
1960	17,427	71,568.4	716,918.5	4,107	41,138	10.02	43,595	180,772.6	2,216,900.0	4,147	50,852	12.26
1961	16,926	71,394.0	706,003.7	4,218	41,711	9.89	43,382	180,584.7	2,166,926.9	4,163	49,950	12.00
1962	16,381	72,462.6	751,889.5	4,424	45,900	10.38	43,184	185,802.4	2,305,097.8	4,303	53,379	12.41
1963	16,072	71,272.9	679,103.1	4,435	42,254	9.53	41,067	173,309.8	2,011,653.4	4,220	48,985	11.61
1964	17,207	76,197.6	723,760.5	4,428	42,062	9.50	42,491	178,566.2	2,069,615.5	4,202	48,707	11.59
1965	15,535	71,075.5	681,175.3	4,575	43,848	9.58	38,559	167,816.5	1,973,613.9	4,352	51,184	11.76
1966	14,168	62,730.4	638,085.6	4,428	45,037	10.17	33,394	146,051.9	1,829,582.8	4,374	54,788	12.53
1967	12,587	57,590.3	591,049.8	4,575	46,957	10.26	30,173	131,088.1	1,685,026.5	4,345	55,846	12.85
1968	12,099	60,145.4	665,359.2	4,971	54,993	11.06	28,254	130,510.1	1,741,757.7	4,619	61,646	13.35
1969	12,255	63,091.7	708,336.3	5,148	57,800	11.23	28,290	137,055.3	1,944,533.9	4,845	68,736	14.19
1970	10,454	53,874.0	695,037.0	5,153	66,485	12.90	26,119	126,652.0	1,980,171.0	4,849	75,813	15.63
1971	9,566	49,877.6	646,412.5	5,214	67,574	12.96	24,156	115,636.6	1,848,874.4	4,787	76,539	15.99
1972	10,173	53,984.4	762,721.5	5,307	74,975	14.13	25,450	125,534.4	2,181,716.4	4,933	85,726	17.38
1973	9,713	51,957.0	827,228.3	5,349	85,167	15.92	25,356	128,306.7	2,496,216.3	5,060	98,447	19.46
1974	11,291	58,327.5	1,301,354.0	5,166	115,256	22.31	30,651	143,542.0	3,687,018.7	4,683	120,290	25.69
1975	12,556	63,604.0	1,725,506.8	5,066	137,425	27.13	35,932	167,859.0	5,397,017.2	4,672	150,201	32.15
1976	12,679	63,250.0	1,747,814.4	4,989	137,851	27.63	37,913	174,600.9	5,986,721.1	4,605	157,907	34.29
1977	13,734	70,293.6	2,321,990.2	5,118	169,069	33.03	42,609	201,174.6	7,900,540.0	4,721	185,420	39.27
1978	15,079	78,655.3	3,330,509.1	5,216	220,871	42.34	45,458	218,862.2	10,483,807.4	4,815	230,626	47.90
1979	14,743	75,365.5	3,877,721.7	5,112	263,021	51.45	47,263	225,119.6	12,871,899.2	4,763	272,346	57.18
1980	17,722	87,898.7	5,308,941.9	4,960	299,568	60.40	60,739	283,527.7	18,954,056.8	4,668	312,057	66.85
1981	24,012	120,773.3	9,040,265.1	5,030	376,489	74.85	79,340	374,377.6	31,114,704.4	4,719	392,169	83.11
1982	23,199	111,833.9	9,806,473.8	4,821	422,711	87.69	75,188	348,081.1	33,274,298.3	4,629	442,548	95.59
1983	20,614	92,519.6	5,496,480.3	4,488	266,638	59.41	66,266	288,393.9	20,143,818.7	4,352	303,984	69.85
1984	22,688	107,837.2	5,304,338.9	4,753	233,795	49.19	75,789	336,329.6	20,182,272.7	4,438	266,296	60.01
1985	19,596	95,753.4	4,994,684.7	4,886	254,883	52.16	66,574	301,674.4	18,617,310.9	4,531	279,648	61.71
1986	11,266	55,149.6	2,910,348.2	4,895	258,330	52.77	36,275	166,881.9	9,956,088.3	4,600	274,461	59.66
1987	10,117	49,455.4	1,773,914.1	4,888	175,340	35.87	32,332	150,011.3	7,185,464.1	4,640	222,240	47.90
1988	8,996	46,600.7	2,000,075.6	5,180	222,329	42.92	28,875	140,881.3	7,854,895.0	4,879	272,031	55.76
1989	7,633	38,252.9	1,635,035.6	5,012	214,206	42.74	25,947	123,753.0	7,284,213.0	4,769	280,734	58.86
1990	7,208	37,621.2	1,784,334.0	5,219	247,549	47.43	27,809	136,821.0	8,746,683.0	4,920	314,527	63.93

(a) Data pertaining to well classification not available.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual

United States
Estimated Drilling Costs by Well Classification, Offshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						Gas Wells					
1959	277	2,599.6	88,835.0	9,385	320,704	34.17	75	896.7	48,588.0	11,956	647,840	54.19
1960	301	2,865.0	98,197.1	9,518	326,236	34.27	87	1,042.9	52,700.8	11,987	605,756	50.53
1961	336	3,187.5	115,617.3	9,487	344,099	36.27	86	990.2	47,654.8	11,514	554,126	48.13
1962	342	3,326.0	119,019.6	9,725	348,011	35.78	115	1,260.5	57,016.1	10,961	495,792	45.23
1963	372	3,689.4	130,913.0	9,918	351,917	35.48	90	1,051.2	49,100.6	11,680	545,562	46.71
1964	477	4,612.2	164,388.0	9,669	344,629	35.64	125	1,502.0	63,316.0	12,016	506,528	42.15
1965	487	4,919.9	193,026.3	10,102	396,358	39.23	118	1,379.7	67,430.4	11,692	571,444	48.87
1966	544	5,449.4	240,434.0	10,017	441,974	44.12	146	1,756.8	97,073.9	12,033	664,890	55.26
1967	739	6,258.3	303,250.0	8,469	410,352	48.46	168	1,939.8	99,803.2	11,546	594,067	51.45
1968	757	6,627.4	390,146.0	8,755	515,384	58.87	179	1,995.7	106,519.8	11,149	595,083	53.37
1969	585	5,208.2	320,848.3	8,903	548,459	61.60	222	2,457.8	166,088.0	11,071	748,144	67.58
1970	533	4,683.0	281,628.0	8,786	528,383	60.14	193	2,049.0	138,878.0	10,617	719,575	67.78
1971	309	2,913.0	163,352.3	9,427	528,648	56.08	185	2,035.1	141,544.6	11,001	765,106	69.55
1972	332	3,273.5	213,035.8	9,860	641,674	65.08	230	2,460.6	175,825.9	10,698	764,460	71.46
1973	296	2,686.2	181,945.6	9,075	614,681	67.73	193	1,968.2	153,971.2	10,198	797,778	78.23
1974	253	2,102.9	169,594.7	8,312	670,335	80.65	155	1,578.8	151,606.7	10,186	978,108	96.03
1975	283	2,426.5	252,551.7	8,574	892,409	104.08	271	2,762.3	337,855.3	10,193	1,246,699	122.31
1976	275	2,621.0	322,349.5	9,531	1,172,180	122.99	273	2,651.1	395,815.0	9,711	1,449,872	149.30
1977	288	2,570.4	418,724.6	8,925	1,453,905	162.90	393	3,722.3	674,579.0	9,472	1,716,486	181.23
1978	298	2,814.7	542,971.4	9,445	1,822,052	192.91	419	4,208.6	982,577.3	10,044	2,345,053	233.47
1979	349	3,240.0	694,803.4	9,284	1,990,841	214.45	453	4,606.7	1,227,705.6	10,169	2,710,167	266.50
1980	317	2,838.0	844,306.7	8,953	2,663,428	297.50	444	4,418.8	1,445,737.8	9,952	3,256,166	327.18
1981	415	3,467.3	1,074,328.8	8,355	2,588,744	309.85	515	5,168.0	2,122,169.8	10,035	4,120,718	410.64
1982	486	4,269.2	1,563,370.0	8,784	3,216,811	366.20	442	4,591.6	2,165,054.2	10,388	4,898,313	471.53
1983	459	4,312.4	1,499,152.3	9,395	3,266,127	347.64	293	3,124.5	1,213,032.8	10,664	4,140,044	388.23
1984	486	4,381.8	1,322,458.1	9,016	2,721,107	301.81	372	3,787.6	1,352,636.1	10,182	3,636,119	357.12
1985	369	3,400.2	1,265,696.9	9,215	3,430,073	372.24	307	3,274.7	1,299,888.9	10,667	4,234,166	396.95
1986	333	3,138.9	1,040,990.1	9,426	3,126,096	331.64	207	2,300.1	941,245.4	11,112	4,547,079	409.22
1987	224	2,171.7	696,024.5	9,695	3,107,252	320.50	142	1,548.4	421,324.9	10,904	2,967,077	272.10
1988	183	1,859.4	526,695.9	10,161	2,878,120	283.26	192	2,163.7	692,150.8	11,269	3,604,952	319.89
1989	158	1,677.0	481,970.0	10,614	3,050,443	287.40	223	2,256.7	695,766.7	10,120	3,120,030	308.31
1990	136	1,289.6	399,457.1	9,482	2,937,185	309.75	209	2,089.0	794,796.4	9,995	3,802.9	380.47

See notes and sources at end of table

United States
Estimated Drilling Costs by Well Classification, Offshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells		Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes						Offshore Wells Drilled						
1953(a)							82	(b)	783.0	24,499.0	9,549	298,768	31.29
1955(a)							414	(c)	3,959.8	160,219.0	9,565	387,002	40.46
1956(a)							479	(d)	4,593.4	198,786.0	9,590	415,002	43.28
1959	124	1,260.6	44,936.0	10,166	362,387	35.65	476		4,756.9	182,359.0	9,993	383,107	38.34
1960	150	1,700.4	56,620.4	11,336	377,469	33.30	538		5,608.4	207,518.3	10,425	385,722	37.00
1961	184	1,906.6	67,963.7	10,362	369,368	35.65	606		6,084.4	231,235.8	10,040	381,577	38.00
1962	303	3,168.2	95,541.9	10,456	315,320	30.16	760		7,754.8	271,577.6	10,204	357,339	35.02
1963	324	3,429.7	111,196.9	10,585	343,200	32.42	786		8,170.2	291,210.5	10,395	370,497	35.64
1964	393	4,065.2	130,047.6	10,344	330,910	31.99	995		10,179.3	357,751.7	10,230	359,549	35.15
1965	432	4,588.9	167,366.0	10,622	387,421	36.47	1,037		10,888.6	427,822.6	10,500	412,558	39.29
1966	437	4,664.1	193,649.6	10,673	443,134	41.52	1,127		11,870.3	531,157.5	10,533	471,302	44.75
1967	458	4,719.5	211,098.7	10,305	460,914	44.73	1,365		12,917.7	614,151.9	9,464	449,928	47.54
1968	386	3,995.5	170,936.8	10,351	442,841	42.78	1,322		12,618.6	667,602.7	9,545	504,994	52.91
1969	384	3,983.9	179,201.1	10,375	466,670	44.98	1,191		11,649.9	666,137.4	9,782	559,309	57.18
1970	332	3,506.0	178,005.0	10,560	536,160	50.77	1,058		10,238.0	598,511.0	9,677	565,700	58.46
1971	390	4,059.3	217,720.1	10,408	558,257	53.63	884		9,007.4	522,617.1	10,189	591,196	58.02
1972	431	4,267.0	243,587.6	9,900	565,168	57.09	993		10,001.1	632,449.4	10,072	636,908	63.24
1973	399	3,699.7	242,397.1	9,272	607,512	65.52	888		8,354.1	578,313.9	9,408	651,254	69.23
1974	422	3,720.5	358,768.7	8,816	850,163	96.43	830		7,402.3	679,970.1	8,918	819,241	91.86
1975	474	4,594	583,789.7	9,693	1,231,624	127.07	1,028		9,783.2	1,174,196.7	9,517	1,142,215	120.02
1976	480	4,545	756,794.7	9,469	1,576,656	166.50	1,028		9,817.2	1,474,959.2	9,550	1,434,785	150.24
1977	536	5,227	962,609.5	9,752	1,795,913	184.15	1,217		11,519.9	2,055,913.1	9,466	1,689,329	178.47
1978	480	4,733	1,051,734.0	9,861	2,191,113	222.19	1,197		11,756.7	2,577,2[illegible]	9,822	2,153,118	219.22
1979	458	4,546	1,284,522.2	9,925	2,804,634	282.58	1,260		12,392.5	3,207,031.2	9,835	2,545,263	258.79
1980	511	5,246	1,556,254.3	10,267	3,045,507	296.63	1,272		12,503.3	3,846,298.9	9,830	3,023,820	307.62
1981	546	5,788	2,354,253.5	10,600	4,311,820	406.76	1,476		14,422.5	5,550,752.1	9,771	3,760,672	384.87
1982	536	5,676	2,425,396.1	10,590	4,524,993	427.28	1,464		14,537.1	6,153,820.3	9,930	4,203,429	423.32
1983	518	5,396	2,248,538.9	10,415	4,340,809	416.78	1,270		12,831.9	4,960,724.0	10,104	3,906,082	386.59
1984	563	6,090	2,348,852.4	10,817	4,172,029	385.70	1,421		14,259.2	5,023,946.6	10,035	3,535,501	352.33
1985	571	6,141	2,513,705.9	10,755	4,402,287	409.33	1,247		12,815.9	5,079,291.7	10,277	4,073,209	396.33
1986	358	3,969	1,614,079.2	11,086	4,508,601	406.70	898		9,407.7	3,596,314.6	10,476	4,004,805	382.27
1987	343	3,625	935,935.9	10,569	2,728,676	258.18	709		7,345.3	2,053,285.3	10,360	2,896,030	279.54
1988	491	5,311	1,475,780.4	10,818	3,005,663	277.85	866		9,334.4	2,694,627.1	10,779	3,111,579	288.68
1989	365	3,788	1,207,389.4	10,377	3,307,916	318.77	746		7,721.4	2,385,126.1	10,350	3,197,220	308.90
1990	359	3,585	996,537.5	9,987	2,775,870	277.97	704		6,963.8	2,190,791.0	9,892	3,111,919	314.60

(a) Data pertaining to well classification not available.
(b) Louisiana only.
(c) Includes Louisiana and Texas.
(d) Includes Louisiana, Texas and California.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual.

Section III
Table 11

United States
Estimated Drilling Costs, all Wells by Classification

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						**Gas Wells**					
1959	25,413	96,931.3	1,321,426.0	3,814	51,998	13.63	5,049	27,585.5	508,895.0	5,464	100,791	18.45
1960	21,294	84,033.9	1,110,701.1	3,946	52,160	13.22	5,262	29,078.3	540,179.3	5,526	102,657	18.58
1961	21,204	82,924.1	1,086,761.4	3,911	51,253	13.11	5,674	30,444.4	537,433.9	5,366	94,719	17.65
1962	21,402	86,494.5	1,160,472.1	4,041	54,223	13.42	5,858	31,431.8	568,771.8	5,366	97,093	18.10
1963	20,678	81,099.8	1,071,138.2	3,922	51,801	13.21	4,779	25,677.7	441,425.7	5,373	92,368	17.19
1964	21,012	80,988.9	1,062,994.9	3,854	50,590	13.13	4,874	27,493.8	510,564.1	5,641	104,753	18.57
1965	18,857	76,547.5	1,066,795.3	4,059	56,573	13.94	4,772	26,493.2	486,100.0	5,552	101,865	18.35
1966	15,856	65,553.6	985,753.6	4,134	62,169	15.04	4,060	24,974.1	543,251.6	6,151	133,806	21.75
1967	14,935	59,934.3	995,368.9	4,013	66,647	16.61	3,558	21,761.6	501,660.9	6,116	140,995	23.05
1968	13,767	58,456.1	1,089,328.4	4,246	79,126	18.63	3,324	20,531.8	493,736.1	6,177	148,537	24.05
1969	12,915	57,934.4	1,117,128.5	4,486	86,499	19.28	3,927	23,695.2	606,005.4	6,034	154,318	25.58
1970	12,547	56,417.0	1,088,057.0	4,496	86,718	19.29	3,844	23,093.0	617,583.0	6,008	160,662	26.74
1971	11,405	48,585.2	894,505.1	4,260	78,431	18.41	3,679	22,121.8	612,853.8	6,013	166,582	27.70
1972	10,753	48,399.5	1,005,471.1	4,501	93,506	20.77	5,086	28,884.6	802,365.5	5,679	157,764	27.78
1973	9,705	44,667.1	1,006,975.3	4,602	103,758	22.54	6,427	36,336.9	997,931.6	5,654	155,272	27.46
1974	13,073	51,765.2	1,440,325.8	3,960	110,176	27.82	6,695	37,131.1	1,266,540.3	5,546	189,177	34.11
1975	16,276	66,067.8	2,256,507.0	4,059	138,640	34.15	7,654	43,375.9	2,005,410.4	5,667	262,008	46.23
1976	16,878	68,257.2	2,549,652.6	4,044	151,064	37.35	8,904	48,365.8	2,407,418.6	5,432	270,375	49.78
1977	18,077	74,660.3	3,072,754.5	4,130	169,981	41.16	11,479	62,513.2	3,599,096.8	5,446	313,538	57.57
1978	17,790	74,410.6	3,700,025.1	4,182	207,983	49.73	13,306	72,819.5	4,978,821.9	5,473	374,179	68.37
1979	19,243	80,261.0	4,678,560.4	4,170	243,130	58.30	14,079	77,339.9	6,238,126.0	5,493	443,080	80.66
1980	28,553	117,066.2	7,768,436.9	4,099	272,070	66.37	15,225	85,819.6	8,166,722.6	5,637	536,402	95.16
1981	38,725	161,982.1	13,022,804.3	4,183	336,289	80.40	17,533	100,257.5	12,248,133.7	5,718	698,576	122.17
1982	35,865	144,304.5	12,458,580.5	4,024	347,374	86.33	17,052	100,803.5	14,737,668.3	5,912	864,278	146.20
1983	33,485	130,823.9	9,503,761.1	3,907	283,821	72.64	12,919	72,487.3	7,855,762.3	5,611	608,078	108.37
1984	38,976	154,017.6	10,214,239.8	3,952	262,065	66.32	14,983	82,644.2	7,338,788.2	5,516	489,808	88.80
1985	33,800	136,889.5	9,141,070.2	4,050	270,446	66.78	13,854	75,706.5	7,047,141.7	5,465	508,672	93.09
1986	18,198	75,847.3	5,184,092.9	4,168	284,872	68.35	7,351	41,324.0	3,843,882.6	5,622	522,906	93.02
1987	15,326	64,602.0	3,769,429.7	4,215	245,950	58.35	7,255	39,674.1	2,759,469.8	5,469	380,354	69.55
1988	12,434	55,781.3	3,474,161.3	4,486	279,408	62.28	7,820	42,522.4	3,599,504.8	5,438	460,295	84.65
1989	9,865	42,895.4	2,784,625.0	4,348	282,273	64.92	8,830	46,538.3	4,042,289.1	5,270	457,790	86.86
1990	11,472	53,367.7	3,691,688.4	4,652	321,800	69.17	9474	49,210.6	4,464,914.0	5,194	471,281	90.73

See notes and sources at end of table

United States
Estimated Drilling Costs, all Wells by Classification

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes						**Total Wells Drilled**					
1953(a)							49,279	198,839.0	2,471,718.3	4,035	50,158	12.43
1955(a)							55,931	225,157.0	2,600,143.0	4,026	46,488	11.55
1956(a)							57,125	232,173.7	2,868,410.0	4,064	50,213	12.35
1959	19,101	80,995.6	820,775.0	4,240	42,970	10.13	49,563	205,512.4	2,651,096.0	4,146	53,489	12.90
1960	17,577	73,268.8	773,538.9	4,168	44,009	10.56	44,133	186,380.9	2,424,418.3	4,223	54,934	13.01
1961	17,110	73,300.6	773,967.3	4,284	45,235	10.56	43,988	186,669.1	2,398,162.6	4,244	54,519	12.85
1962	16,684	75,630.9	847,431.5	4,533	50,793	11.20	43,944	193,557.2	2,576,675.4	4,405	58,635	13.31
1963	16,396	74,702.6	790,300.1	4,556	48,201	10.58	41,853	181,480.1	2,302,864.0	4,336	55,023	12.69
1964	17,600	80,262.7	853,808.2	4,560	48,512	10.64	43,486	188,745.4	2,427,367.2	4,340	55,820	12.86
1965	15,967	75,664.4	848,541.2	4,739	53,143	11.21	39,596	178,705.1	2,401,436.5	4,513	60,648	13.44
1966	14,605	67,394.5	831,735.2	4,614	56,949	12.34	34,521	157,922.3	2,360,740.3	4,575	68,386	14.95
1967	13,045	62,309.9	802,148.5	4,777	61,491	12.87	31,538	144,005.8	2,299,178.4	4,566	72,902	15.97
1968	12,485	64,140.9	826,295.9	5,137	66,183	12.88	29,576	143,128.8	2,409,360.4	4,839	81,463	16.83
1969	12,639	67,075.6	887,537.4	5,307	70,222	13.23	29,481	148,705.2	2,610,671.3	5,044	88,554	17.56
1970	10,786	57,380.0	873,042.0	5,320	80,942	15.21	27,177	136,890.0	2,578,682.0	5,037	94,885	18.84
1971	9,956	53,936.9	864,132.7	5,418	86,795	16.02	25,040	124,644.0	2,371,491.5	4,978	94,708	19.03
1972	10,604	58,251.4	1,006,309.2	5,493	94,899	17.28	26,443	135,535.5	2,814,165.8	5,126	106,424	20.76
1973	10,112	55,656.7	1,069,625.4	5,504	105,778	19.22	26,244	136,660.8	3,074,532.3	5,207	117,152	22.50
1974	11,713	62,048.0	1,660,122.7	5,297	141,733	26.76	31,481	150,944.3	4,366,988.8	4,795	138,718	28.93
1975	13,030	68,198.4	2,309,296.5	5,234	177,229	33.86	36,960	177,642.1	6,571,213.9	4,806	177,793	36.99
1976	13,159	67,795.2	2,504,609.1	5,152	190,334	36.94	38,941	184,418.1	7,461,680.3	4,736	191,615	40.46
1977	14,270	75,520.8	3,284,599.7	5,292	230,175	43.49	43,826	212,694.4	9,956,453.0	4,853	227,181	46.81
1978	15,559	83,388.7	4,382,243.2	5,359	281,653	52.56	46,655	230,618.9	13,061,090.0	4,943	279,950	56.63
1979	15,201	79,911.3	5,162,244.0	5,256	339,598	64.61	48,523	237,512.1	16,078,930.4	4,895	331,367	67.70
1980	18,233	93,145.1	6,865,196.2	5,108	376,525	73.71	62,011	296,031.0	22,800,355.7	4,774	367,682	77.02
1981	24,558	126,560.5	11,394,518.6	5,154	463,984	90.03	80,816	388,800.1	36,665,456.5	4,811	453,691	94.30
1982	23,735	117,510.1	12,231,369.9	4,951	515,352	104.09	76,652	362,618.2	39,428,118.6	4,731	514,378	108.73
1983	21,132	97,914.6	7,745,019.2	4,633	366,507	79.11	67,536	301,225.8	25,104,542.6	4,460	371,721	83.34
1984	23,251	113,927.0	7,653,191.4	4,900	329,155	67.18	77,210	350,588.7	25,206,219.3	4,541	326,463	71.90
1985	20,167	101,894.4	7,508,390.7	5,053	372,311	73.68	67,821	314,490.4	23,696,602.5	4,637	349,399	75.35
1986	11,624	59,118.3	4,524,427.4	5,086	389,232	76.53	37,173	176,289.6	13,552,402.8	4,742	364,577	76.88
1987	10,460	53,080.5	2,709,850.0	5,075	259,068	51.05	33,041	157,356.6	9,238,749.5	4,762	279,615	58.71
1988	9,487	51,912.1	3,475,856.0	5,472	366,381	66.96	29,741	150,217.8	10,549,522.1	5,051	354,713	70.23
1989	7,998	42,040.6	2,842,425.0	5,256	355,392	67.61	26,693	131,474.4	9,669,339.1	4,925	362,243	73.55
1990	7,567	41,206.4	2,780,871.5	5,446	367,500	67.49	28,513	143,784.8	10,937,473.9	5,043	383,596	76.07

(a) Data pertaining to well classification not available.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual

Section III
Table 12

International Well Completions

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	29,467	27,300	28,755	27,602	32,893	39,097	41,455	46,479	48,513	51,263	62,462	80,537	88,101	75,738	84,983
Canada	3,108	3,175	3,548	4,621	4,227	4,242	6,221	6,197	7,170	7,489	8,813	6,927	6,464	7,095	8,765
Mexico	502	516	431	422	408	353	336	307	406	333	434	412	336	65	268
Total North America	33,077	30,991	32,734	32,645	37,528	44	48,012	52,938	56,089	59,085	72	87,876	94,901	82,898	94,016
Argentina	579	595	623	597	606	552	646	647	865	773	953	904	822	130	126
Brazil	177	175	179	128	176	228	288	245	256	385	463	668	1,045	1,145	963
Ecuador	37	81	59	58	37	15	19	16	16	40	23	27	27	10	25
Peru	135	121	117	89	152	161	150	160	157	451	540	426	149	23	150
Trinidad-Tobago	135	220	196	212	200	189	192	217	215	188	218	243	200	11	151
Venezuela	589	464	371	427	416	284	337	446	637	1,030	1,275	1,491	1,500	19	406
Other	177	189	158	127	140	128	156	194	183	289	326	380	357	49	241
Total Latin America(c)	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156	3,798	4,139	4,100	1,387	2,062
Total Western Hemisphere(c)	34,906	32,836	34,437	34,283	39,255	45,249	49,800	54,908	58,418	62,241	75,507	92,015	99,001	84,285	96,078
Total North Sea	88	100	107	113	176	207	210	166	134	227	273	283	283	402	141
Other European	274	318	352	287	313	369	345	410	525	448	758	810	777	665	648
Total Europe(c)	362	418	459	400	489	576	555	576	659	675	1,031	1,093	1,060	1,067	789
Algeria	115	109	80	83	79	107	54	130	60	267	249	159	0	32	NA
Gabon	26	36	36	44	59	49	44	31	35	38	40	61	56	62	43
Libya	250	87	77	74	79	66	64	109	177	184	192	157	110	--	99
Nigeria	168	207	258	239	249	192	143	118	104	116	132	202	144	124	89
Other	150	214	194	157	162	191	130	208	208	236	257	369	461	475	450
Total Africa(c)	709	653	645	597	628	605	435	596	584	841	870	948	771	693	NA
United Arab Emirates	7	28	55	57	84	68	113	98	90	96	138	161	193	34	143
Iran	44	104	61	81	100	140	182	185	180	0	-	-	-	--	--
Iraq	6	17	0	16	2	0	2	NA	NA	66	67	-	-	--	--
Kuwait(b)	13	8	2	0	0	0	8	0	0	12	36	5	8	--	11
Saudi Arabia(b)	43	56	178	323	300	210	163	180	145	144	223	229	25	--	--
Neutral Zone(b)	23	12	9	13	19	14	15	4	0	3	4	5	6	--	--
Qatar	7	10	8	9	2	7	4	2	2	46	53	51	52	--	8
Oman	27	0	56	49	40	55	42	51	61	102	89	110	159	38	46
Other	72	58	56	61	83	102	75	124	107	143	207	210	128	39	62
Total Middle East(c)	242	293	425	609	630	596	604	644	585	621	817	771	571	111	270
Indonesia	84	422	312	501	630	588	513	409	536	473	635	727	323	969	756
Other(d)	162	157	223	197	180	157	229	295	440	2,492	3,443	3,539	592	384	1,219
Total Australasia(c)	246	579	535	698	810	745	742	704	976	2,965	4,078	4,266	915	1,353	1,975
Total Eastern Hemisphere(c)	1,559	1,943	2,064	2,304	2,557	2,522	2,336	2,520	2,804	5,102	6,796	7,078	3,317	3,224	NA
TOTAL WORLD(c)	36,465	34,779	36,501	36,587	41,812	47,771	52,136	57,428	61,222	67,343	82,303	99,093	102,318	87,509	NA

See notes and sources at end of table

Section III
Table 12a

International Well Completions

Area/Country	1985	1986	1987	1988	1989
United States	70,806	39,015	35,232	34,015	28,799
Canada	12,564	5,991	7,078	7,849	5,513
Mexico	297	247	103	132	82
Total North America	83,667	45,253	42,413	41,996	34,394
Argentina	1,024	820	416	781	801
Brazil	1,074	1,086	950	793	591
Ecuador	22	33	30	42	29
Peru	160	148	152	118	86
Trinidad-Tobago	197	162	142	142	85
Venezuela	361	254	177	235	181
Other	299	394	336	455	370
Total Latin America(c)	3,137	2,897	2,203	2,566	2,143
Total Western Hemisphere(c)	86,706	48,150	43,616	44,562	36,537
Total North Sea	462	435	350	NA	NA
Other European	817	744	570	NA	NA
Total Europe(c)	1,279	1,179	920	NA	743
Algeria	NA	NA	45	35	78
Gabon	46	21	31	43	52
Libya	NA	41	41	74	87
Nigeria	62	56	72	69	91
Other	401	337	314	306	253
Total Africa(c)	NA	NA	503	527	561
United Arab Emirates	NA	111	NA	8	52
Iran	NA	58	NA	NA	NA
Iraq	NA	40	89	106	NA
Kuwait(b)	NA	59	23	1	10
Saudi Arabia(b)	NA	33	NA	NA	47
Neutral Zone(b)	NA	0	0	0	NA
Qatar	NA	0	NA	NA	11
Oman	NA	210	NA	NA	NA
Other	NA	141	28	4	258
Total Middle East(c)	NA	652	140	119	378
Indonesia	658	647	586	NA	599
Other(d)	6,684	6,234	6,641	6,560	103
Total Australasia(c)	7,340	6,881	7,250	6,560	702
Total Eastern Hemisphere(c)	NA	NA	8,813	7,733	2,648
TOTAL WORLD(c)	NA	NA	52,429	52,295	39,185

See notes and sources at end of table

International Well Completions

(a) Data for all countries is not available.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis.
(c) Totals reflect data for countries not individually listed.
(d) Includes 5555 wells in China in 1985, 5,525 in 1986, 5,721 in 1987, 5,835 in 1988.
No data was reported for China in 1989.
NA Not Available.

SOURCE: United States: American Association of Petroleum Geologists and American Petroleum Institute
Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991

Section III
Table 13

International Exploratory Well Completions(a)

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	7,693	6,922	7,539	7,466	8,619	9,214	9,234	9,961	10,677	10,484	11,916	15,168	16,482	13,845	15,138
Canada	1,537	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925	3,857	3,074	2,346	2,041	2,863
Mexico	130	129	143	104	98	87	79	79	83	NA	85	63	65	65	44
Total North America	9,360	8,585	9,315	9,789	10,452	10,950	11,794	12,841	13,904	NA	15,858	18,305	18,893	15,951	18,045
Argentina	113	157	110	139	117	78	83	143	81	NA	110	127	107	130	136
Brazil	100	87	80	78	86	87	105	155	89	NA	166	245	328	262	243
Ecuador	20	15	20	8	5	3	3	5	3	NA	0	3	5	10	3
Peru	28	21	25	31	43	43	36	37	28	NA	13	17	12	23	29
Trinidad-Tobago	23	35	23	15	13	14	23	17	8	NA	51	16	23	11	4
Venezuela	90	44	64	63	76	35	45	48	60	NA	69	351	250	19	18
Other	70	60	77	50	65	61	67	56	60	NA	NA	211	150	49	66
Total Latin America	444	419	399	384	405	321	362	406	329	NA	409	970	879	504	499
Total Western Hemisphere	9,804	9,004	9,714	10,173	10,857	11,271	12,156	13,247	14,233	NA	16,267	19,275	19,772	16,455	18,544
Total North Sea	66	53	51	70	92	124	109	21	38	168	NA	135	201	220	79
Other European	93	146	159	147	151	172	163	231	259	157	NA	372	398	308	317
Total Europe	159	199	210	217	243	296	272	252	297	325	NA	507	599	528	396
Algeria	37	25	10	13	9	17	11	11	3	3	2	1	1	2	3
Gabon	13	11	17	15	13	23	19	19	20	22	15	23	16	11	18
Libya	51	41	34	25	32	36	22	33	41	30	35	43	34	--	51
Nigeria	31	55	61	45	51	33	21	24	35	22	31	26	30	24	12
Other	131	125	101	80	86	91	89	117	102	133	124	191	216	167	124
Total Africa	263	257	223	178	191	200	162	204	201	204	207	284	297	204	208
United Arab Emirates	7	10	22	8	3	0	15	14	24	0	10	0	26	34	17
Iran	11	6	2	18	27	26	26	25	10	NA	0	NA	0	--	--
Iraq	1	0	0	3	2	0	2	NA	NA	NA	0	NA	0	--	--
Kuwait(b)	1	2	0	0	0	0	2	0	0	NA	2	NA	8	--	11
Saudi Arabia(b)	2	2	6	3	4	9	24	4	25	NA	40	NA	25	--	--
Neutral Zone(b)	0	0	0	0	0	0	0	0	0	NA	0	NA	2	--	--
Qatar	2	1	6	1	0	0	0	0	0	NA	3	NA	4	--	3
Oman	2	0	16	0	0	0	0	10	24	NA	15	NA	31	38	29
Other	46	27	29	32	34	65	51	46	39	NA	18	NA	71	39	50
Total Middle East(c)	72	48	81	65	70	100	120	99	122	NA	88	NA	167	111	110
Indonesia	84	135	137	169	176	186	130	115	146	NA	182	NA	167	NA	216
Other	162	126	175	173	162	127	119	132	249	NA	221	NA	297	NA	468
Total Australasia(c)	246	261	312	342	338	313	249	247	395	377	403	125	464	NA	684
Total Eastern Hemisphere(c)	740	765	826	802	842	909	803	802	1,015	NA	698	916	1,527	843	1,398
TOTAL WORLD(c)	10,544	9,769	10,540	10,975	11,699	12,180	12,950	14,049	15,248	14,315	16,695	20,191	21,299	17,170	19,942

See notes and sources at end of table

International Exploratory Well Completions(a)

Area/Country	1985	1986	1987	1988	1989
United States	12,208	7,156	6,715	6,702	5,315
Canada	3,404	2,034	2,369	2,889	2,525
Mexico	78	68	27	33	24
Total North America	15,690	9,258	9,111	9,624	7,864
Argentina	161	92	45	102	120
Brazil	229	163	176	160	115
Ecuador	2	4	9	14	11
Peru	13	11	13	8	7
Trinidad-Tobago	14	8	8	6	8
Venezuela	6	25	21	17	23
Other	111	84	129	139	126
Total Latin America	536	387	401	446	410
Total Western Hemisphere	16,448	9,645	9,512	10,070	8,274
Total North Sea	254	224	174	NA	NA
Other European	362	366	570	NA	NA
Total Europe	616	579	744	NA	426
Algeria	25	30	25	14	18
Gabon	13	12	16	20	26
Libya	45	27	25	25	26
Nigeria	17	29	44	42	47
Other	184	143	154	146	123
Total Africa	284	241	264	247	240
United Arab Emirates	NA	13	0	8	3
Iran	NA	7	NA	NA	NA
Iraq	NA	2	10	19	2
Kuwait(b)	NA	0	2	1	2
Saudi Arabia(b)	NA	6	NA	3	3
Neutral Zone(b)	NA	0	0	0	NA
Qatar	NA	0	NA	7	3
Oman	NA	32	36	40	44
Other	NA	64	43	81	103
Total Middle East(c)	NA	124	91	159	160
Indonesia	208	122	75	103	102
Other	256	323	310	226	52
Total Australasia(c)	464	445	385	329	154
Total Eastern Hemisphere(c)	NA	1,380	1,484	635	1,048
TOTAL WORLD(c)	NA	11,025	10,996	10,705	9,322

International Exploratory Well Completions(a)

(a) Data for all countries is not available.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis.
(c) Totals reflect data for countries not individually listed.
NA = Not Available.

SOURCE: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991.

Section III
Table 14

United States Annual Average Rotary Rig Activity by State

STATE	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6	5	2	1	2
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9	6	5	6	13
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13	10	9	11	10
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	2	1	1
California	173	134	157	165	169	138	143	119	97	80	93	80	82	97	85	93	89	79
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30	23	21	19	16
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1	0	1	4	2
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0	1	0	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32	25	20	24	30
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6	6	6	5	5
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1	1	0	0	1
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101	96	87	70	56
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6	10	8	12	13
Louisiana	239	231	243	257	280	312	401	442	423	309	332	287	275	261	265	282	270	256
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	2	2	4
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15	14	13	11	9
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46	46	39	35	34
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	0	0	1
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27	22	21	26	24
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16	12	11	10	8
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0	0	1	2	1
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94	84	79	65	60
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2	1	1	1	1
North Carolin	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14	9	14	12	12
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8	12	56	22	14
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174	158	158	163	141
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9	12	11	9	10
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1	1	1	2	0
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570	500	477	425	387
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29	22	17	14	14
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	0	0	1
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13	14	16	24	19
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53	55	48	50	48
TOTAL(a)	2,017	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637	1,500	1,502	1,387	1,273

Section III
Table 14a

United States Annual Average Rotary Rig Activity by State

STATE	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	2	3	6	7	8	15	13	12	14	17	13	13	13	11	17	15	16	15
Alaska	21	20	28	14	5	5	5	9	14	14	15	16	13	14	23	22	14	14
Arkansas	8	7	16	13	15	15	15	18	14	15	14	14	10	27	34	27	26	26
Arizona	3	1	2	0	1	0	2	1	0	1	1	0	0	1	1	1	0	0
California	83	87	78	52	46	46	51	72	80	89	90	94	96	120	155	129	106	107
Colorado	16	17	23	25	30	35	42	46	42	38	45	41	40	61	82	61	52	54
Florida	2	1	1	4	11	18	9	7	9	5	6	6	5	4	8	5	4	4
Georgia	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Idaho	0	0	0	1	0	0	1	0	0	1	1	3	2	3	3	1	1	1
Illinois	30	22	17	14	13	14	6	7	19	22	16	28	13	25	45	76	60	41
Indiana	3	2	1	1	1	1	0	1	2	0	3	4	0	0	1	7	6	7
Iowa	0	0	0	0	1	2	1	0	2	0	1	0	0	0	0	0	0	0
Kansas	41	35	38	30	29	24	28	44	57	51	67	76	66	120	196	158	124	128
Kentucky	9	5	2	1	2	2	1	2	1	1	2	3	0	0	5	10	8	6
Louisiana	235	233	230	204	194	215	205	203	228	231	292	338	347	427	456	344	283	310
Maryland	0	1	1	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0
Michigan	10	10	10	11	12	17	20	24	28	24	24	24	25	31	36	31	29	34
Mississippi	33	36	40	43	39	37	29	29	25	32	42	44	40	58	71	42	33	32
Missouri	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Montana	22	34	31	17	17	20	19	24	27	28	27	30	33	49	81	37	24	36
Nebraska	5	5	10	6	5	6	5	7	9	8	9	10	9	14	15	9	9	9
Nevada	1	2	0	0	0	0	0	1	0	2	3	2	4	5	5	3	1	5
New Mexico	56	68	64	40	47	56	62	79	71	54	69	76	88	118	135	104	65	78
New York	1	1	0	0	1	0	1	7	8	9	7	7	9	7	12	15	10	9
North Carolin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	11	13	12	9	9	7	10	12	17	19	24	39	56	83	119	70	43	51
Ohio	18	22	22	24	17	22	36	30	21	26	33	45	46	75	98	57	39	51
Oklahoma	101	106	120	98	90	90	115	146	177	186	233	258	247	397	698	623	285	319
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0
Pennsylvania	7	5	7	9	9	8	11	14	10	10	15	25	29	29	39	33	22	36
Rhode Island	0	0	0	0	0	0	0	0	0	0	1	4	4	2	0	0	0	0
South Dakota	0	1	1	2	1	1	1	1	1	2	3	2	1	2	2	1	1	2
Tennessee	1	0	1	2	1	0	0	0	0	0	0	0	0	1	0	2	1	0
Texas	340	329	322	302	291	338	376	508	638	653	779	855	770	988	1,316	994	796	850
Utah	15	12	12	12	17	34	38	42	26	19	30	32	29	42	69	40	37	45
Virginia	0	0	0	1	1	0	1	2	3	0	1	1	1	1	4	3	2	2
Washington	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1
West Virginia	15	16	18	16	17	17	20	16	10	12	17	27	30	38	45	49	34	38
Wyoming	44	75	81	71	45	61	70	107	107	86	118	137	147	156	191	143	96	115
TOTAL(a)	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656	2,001	2,255	2,176	2,910	3,969	3,117	2,229	2,428

See notes and sources at end of table

Section III
Table 14b

United States Annual Average Rotary Rig Activity by State

STATE	1985	1986	1987	1988	1989	1990
Alabama	22	11	11	12	11	26
Alaska	20	13	8	12	11	12
Arkansas	24	10	9	9	9	11
Arizona	0	0	1	0	0	0
California	80	49	61	60	49	49
Colorado	50	25	25	29	27	30
Florida	7	3	4	2	2	2
Georgia	0	0	0	0	0	0
Hawaii	0	0	0	0	0	2
Idaho	1	1	0	1	0	0
Illinois	28	6	3	4	5	4
Indiana	4	1	1	0	0	0
Iowa	0	0	1	0	0	0
Kansas	91	47	48	40	43	47
Kentucky	6	3	2	5	5	8
Louisiana	282	143	136	164	140	151
Maryland	0	0	0	0	0	0
Michigan	34	24	22	20	17	13
Mississippi	31	15	13	18	16	13
Missouri	0	0	0	0	0	0
Montana	23	10	9	8	6	5
Nebraska	6	3	5	3	1	2
Nevada	5	3	2	2	2	1
New Mexico	71	29	35	37	36	50
New York	5	2	2	1	1	1
North Carolin	0	0	0	0	0	0
North Dakota	38	14	14	15	15	20
Ohio	29	18	20	14	13	12
Oklahoma	251	142	137	126	122	125
Oregon	0	0	0	1	0	0
Pennsylvania	30	18	17	19	17	15
Rhode Island	0	0	0	0	0	0
South Dakota	2	1	0	1	1	0
Tennessee	0	0	0	1	1	0
Texas	677	313	296	281	266	349
Utah	29	11	8	6	5	5
Virginia	4	6	2	2	2	2
Washington	0	0	0	1	1	0
West Virginia	26	15	13	13	16	16
Wyoming	93	36	40	37	34	37
TOTAL(a)	1,969	970	936	936	869	1,010

(a) Totals may not add due to independent rounding.

SOURCE: Baker-Hughes Tool Company

Section III
Table 15

United States Total Wells Reported as Completed by State

	1967			1968			1969			1970(g)			1971		
STATE/AREA	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	28	10	38	18	14	32	34	14	48	30	16	46	55	21	79
Alaska	33	41	74	18	86	107	12	51	67	30	45	77	5	28	33
Offshore(b)	0	0	0	0	0	0	2	44	50	1	16	19	0	1	1
Arizona	14	10	24	6	4	10	24	14	39	9	3	13	10	4	15
Arkansas	87	320	409	111	211	322	131	288	422	87	230	328	93	235	351
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	352	2,182	2,668	353	2,366	2,868	288	1,712	2,167	243	1,791	2,316	221	1,591	2,095
Offshore(b)	12	73	101	28	304	367	17	210	262	15	117	144	15	56	76
Colorado	277	262	539	270	224	495	538	276	820	461	249	710	605	385	990
Florida	11	0	11	9	4	13	8	5	13	13	16	29	18	22	42
Georgia	0	0	0	0	0	0	2	0	2	3	0	3	1	0	1
Idaho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	328	861	1,339	253	789	1,226	241	639	988	198	482	753	152	406	622
Indiana	254	220	510	158	179	367	178	189	407	149	143	307	110	101	228
Iowa	1	0	25	0	0	22	0	0	7	3	0	5	1	0	1
Kansas	1,270	1,937	3,345	1,186	1,849	3,107	1,058	1,919	3,105	882	1,642	2,574	735	1,603	2,398
Kentucky	458	1,086	1,647	453	828	1,379	256	696	1,030	234	594	892	213	557	829
Louisiana	935	2,209	3,185	1,026	2,415	3,478	865	2,272	3,174	669	2,376	3,084	830	2,198	3,078
Offshore(b)	296	559	867	352	696	1,068	147	678	835	150	788	953	274	564	861
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Michigan	173	191	365	174	196	380	164	168	348	152	126	281	162	141	306
Mississippi	347	368	722	382	297	688	373	342	716	232	310	563	213	287	524
Missouri	4	0	19	4	12	38	7	22	57	4	10	15	7	7	15
Montana	302	252	580	465	400	882	499	296	834	307	148	473	323	134	485
Nebraska	95	84	179	196	89	288	285	98	388	167	83	251	130	83	215
Nevada	7	2	9	0	0	0	14	2	16	2	0	9	6	0	6
New Mexico	166	925	1,118	154	743	925	190	984	1,219	159	580	774	158	696	867
New York	35	176	238	9	97	120	6	128	166	11	88	110	10	90	129
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12
North Dakota	60	93	156	121	62	186	178	74	252	87	57	145	98	60	158
Ohio	75	1,186	1,267	79	1,084	1,165	53	1,185	1,255	35	1,310	1,346	41	1,210	1,256
Oklahoma	421	2,431	3,074	422	2,318	2,996	546	2,567	3,395	452	2,135	2,783	430	1,815	2,444
Oregon	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
Offshore(b)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	59	564	683	62	733	897	43	853	1,018	43	664	759	21	719	786
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	4	0	4	4	0	4	56	0	56	64	1	65	24	8	32
Tennessee	47	0	47	25	1	26	23	3	27	50	48	98	113	57	170
Texas	2,508	6,628	9,576	2,207	5,407	8,743	2,718	5,936	9,233	2,022	5,681	8,130	1,848	5,427	7,737
Offshore(b)	61	41	102	40	13	53	103	11	114	49	8	57	31	7	38
Utah	67	75	144	41	58	99	103	71	175	46	39	87	61	36	98
Virginia	0	0	0	0	0	0	8	2	10	0	0	0	0	7	7
Washington	3	0	3	2	0	2	0	0	0	0	0	12	0	0	0
Offshore(b)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	36	738	777	87	646	735	83	819	920	88	998	1,111	66	696	768
Wyoming	420	505	1,042	584	608	1,293	716	859	1,678	504	872	1,393	357	513	903
N. Gulf of Mexico(c)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,878	23,356	33,818	8,879	21,720	32,914 (e)	9,701 (f)	22,486	34,053 (f)	7,436	20,737	29,542	7,131	19,137	27,682

See notes and sources at end of table

United States Total Wells Reported as Completed by State

	1972			1973			1974			1975			1976		
STATE/AREA	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	87	32	119	72	39	111	48	38	86	76	53	130	54	62	116
Alaska	12	13	30	13	19	33	12	27	39	24	41	69	6	54	77
Offshore(b)	0	4	7	3	6	10	0	11	11	1	13	14	0	13	18
Arizona	13	10	23	2	8	10	1	1	2	1	0	2	2	0	2
Arkansas	98	240	344	79	206	292	91	231	325	77	245	330	80	348	438
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	193	1,202	1,674	202	1,073	1,393	253	1,915	2,397	213	2,028	2,694	257	2,161	2,808
Offshore(b)	4	56	80	2	50	65	5	67	79	5	56	66	7	21	28
Colorado	473	501	975	462	478	945	374	537	919	405	762	1,172	389	762	1,152
Florida	39	67	109	34	23	60	28	11	40	34	17	52	9	16	26
Georgia	2	0	2	4	0	4	5	0	5	3	0	3	3	0	3
Idaho	1	0	1	5	0	5	2	0	2	1	0	1	2	0	2
Illinois	157	453	655	213	386	656	225	577	855	253	764	1,129	226	1,058	1,484
Indiana	130	138	284	139	100	259	168	208	389	156	217	400	196	291	509
Iowa	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
Kansas	773	1,645	2,498	754	1,416	2,244	855	1,913	2,980	909	2,444	3,728	893	2,646	3,705
Kentucky	217	541	817	165	458	652	197	508	759	341	631	1,013	425	742	1,189
Louisiana	731	2,481	3,244	678	2,015	2,719	652	2,120	2,833	722	2,322	3,105	607	2,719	3,373
Offshore(b)	200	797	1,008	202	548	760	149	452	620	147	525	679	94	473	572
Maryland	1	0	1	0	0	1	1	0	1	1	0	3	0	2	3
Michigan	182	127	317	191	113	307	264	165	441	282	249	536	294	213	530
Mississippi	237	184	455	209	145	367	288	148	440	260	183	454	265	233	504
Missouri	3	0	4	11	2	13	20	7	96	19	6	95	9	13	44
Montana	430	287	733	448	233	685	420	369	792	355	503	858	362	409	773
Nebraska	185	90	275	102	67	176	167	91	263	206	133	347	193	119	312
Nevada	2	0	2	0	0	0	2	0	2	5	0	5	8	0	8
New Mexico	200	864	1,093	191	849	1,083	215	963	1,193	162	974	1,173	162	859	1,042
New York	14	115	144	21	177	222	53	264	373	35	536	610	40	419	519
North Carolina	2	0	2	7	0	7	3	0	3	1	0	1	0	0	1
North Dakota	60	33	94	71	51	129	76	68	145	105	100	205	122	122	245
Ohio	64	1,484	1,548	160	1,563	1,724	134	1,414	1,552	157	1,400	1,558	133	2,071	2,205
Oklahoma	400	1,888	2,502	353	2,000	2,470	399	2,846	3,386	411	3,404	3,960	452	4,104	4,741
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	83	946	1,100	94	1,151	1,299	124	1,303	1,559	88	1,116	1,270	67	1,212	1,316
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	18	1	19	16	1	17	11	2	17	24	3	27	29	6	36
Tennessee	68	27	95	68	29	99	117	64	181	169	63	232	153	46	199
Texas	2,077	5,839	8,365	2,416	5,906	8,656	3,141	6,881	10,321	3,291	9,588	13,276	3,276	9,335	12,982
Offshore(b)	52	6	58	69	11	80	157	8	166	150	15	166	174	130	304
Utah	77	76	153	77	131	208	55	153	211	64	129	196	41	87	131
Virginia	1	15	16	3	17	20	8	37	45	8	28	36	3	8	11
Washington	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	89	576	669	109	749	858	81	657	741	95	661	772	114	875	1,035
Wyoming	432	508	1,058	402	516	938	463	550	1,026	473	822	1,327	415	630	1,059
N. Gulf of Mexico(c)	0	0	0	0	0	0	14	0	14	33	1	34	27	1	28
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	7,551	20,383	29,420	7,771	19,921	28,862	8,969	24,068	34,415	9,459	29,425	40,804	9,317	31,623	42,614 (h)

See notes and sources at end of table

United States Total Wells Reported as Completed by State

STATE/AREA	1977 Exploratory	1977 Development	1977 Total(a)	1978 Exploratory	1978 Development	1978 Total(a)	1979 Exploratory	1979 Development	1979 Total(a)	1980 Exploratory	1980 Development	1980 Total(a)	1981 Exploratory	1981 Development	1981 Total(a)
Alabama	47	88	136	60	101	161	101	118	219	77	119	196	75	142	222
Alaska	21	48	73	12	55	76	14	71	96	16	108	125	20	146	172
Offshore(b)	3	12	19	2	7	11	2	5	8	0	5	6	0	4	5
Arizona	2	2	4	0	8	8	2	1	4	6	0	6	8	5	14
Arkansas	82	399	491	95	347	450	105	393	504	111	496	612	154	723	889
Atlantic Coast(d)	0	0	1	7	0	7	18	0	18	4	0	4	5	0	5
California	275	1,938	2,553	359	1,639	2,485	395	1,592	2,340	443	2,072	3,039	538	2,593	3,838
Offshore(b)	17	39	63	15	65	85	8	85	123	7	77	137	7	148	193
Colorado	392	791	1,212	449	701	1,156	456	607	1,069	553	857	1,414	849	1,122	1,977
Florida	14	15	32	15	11	29	11	20	32	8	11	21	10	15	25
Georgia	0	0	0	1	0	1	0	0	0	1	0	1	2	0	2
Idaho	1	0	1	7	0	7	3	0	3	5	0	5	5	0	5
Illinois	238	851	1,143	277	855	1,202	284	967	1,327	487	1,828	2,482	736	2,550	3,436
Indiana	276	337	621	268	401	685	183	302	494	327	406	751	347	460	828
Iowa	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Kansas	1,043	2,899	4,060	1,181	3,312	4,576	1,022	3,338	4,436	1,237	4,923	6,266	1,848	6,542	8,551
Kentucky	368	688	1,095	353	657	1,077	423	709	1,195	619	1,463	2,171	870	2,030	3,062
Louisiana	640	2,753	3,439	782	3,001	3,817	665	3,358	4,063	808	4,223	5,147	971	4,362	5,503
Offshore(b)	138	634	785	121	594	723	123	598	723	146	493	644	176	503	680
Maryland	0	0	3	0	0	3	0	0	0	1	0	1	1	0	1
Michigan	297	243	545	267	257	539	255	264	538	316	345	676	402	382	787
Mississippi	272	255	539	241	248	496	242	281	534	310	360	680	357	431	788
Missouri	8	4	53	6	26	49	15	56	85	22	143	266	78	189	397
Montana	273	400	679	324	453	778	349	471	822	382	507	902	521	744	1,289
Nebraska	235	186	425	265	183	451	265	184	450	252	260	514	279	327	608
Nevada	12	6	18	14	7	22	11	0	12	20	1	21	28	2	34
New Mexico	180	1,210	1,407	205	1,375	1,625	212	1,396	1,656	273	1,793	2,126	358	2,099	2,527
New York	49	345	485	45	330	427	60	437	513	59	436	507	79	492	578
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	111	131	242	162	178	341	175	265	440	256	360	619	461	417	879
Ohio	81	2,685	2,768	77	3,254	3,333	114	3,532	3,657	66	5,023	5,093	151	5,926	6,082
Oklahoma	490	4,821	5,344	495	5,641	6,164	479	6,477	6,960	554	9,568	10,158	733	12,357	13,125
Oregon	2	0	2	0	0	0	17	4	21	32	9	41	20	0	20
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	116	1,433	1,569	94	2,013	2,182	105	2,068	2,295	255	2,833	3,261	342	3,517	3,962
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	20	23	43	21	29	50	32	17	49	33	41	75	47	43	90
Tennessee	177	110	287	149	115	264	163	185	348	293	257	550	333	295	628
Texas	3,726	10,898	15,114	4,085	11,260	15,863	3,910	11,414	15,810	4,354	15,172	20,008	5,688	20,291	26,442
Offshore(b)	131	180	311	160	147	307	123	87	210	113	132	245	125	114	239
Utah	103	184	305	80	186	268	89	187	284	112	177	291	208	347	555
Virginia	9	16	25	5	26	31	4	21	25	2	25	27	6	26	32
Washington	0	0	0	0	0	0	0	0	6	2	0	3	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	115	1,112	1,267	151	1,352	1,537	124	1,445	1,612	119	1,752	1,924	170	1,948	2,170
Wyoming	440	827	1,281	470	996	1,489	411	963	1,392	435	1,037	1,518	708	1,289	2,043
N. Gulf of Mexico(c)	17	17	34	4	14	18	18	12	30	16	11	27	22	12	34
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	7	0	11	4	0	4	3	0	3	4	0	4	0	0	0
Total	10,140	35,715	47,308	11,030	39,031	51,671	10,705	41,155	53,362	12,870	56,616	71,562	17,430	71,804	91,600

See notes and sources at end of table

United States Total Wells Reported as Completed by State

STATE/AREA	1982 Exploratory	1982 Development	1982 Total(a)	1983 Exploratory	1983 Development	1983 Total(a)	1984 Exploratory	1984 Development	1984 Total(a)	1985 Exploratory	1985 Development	1985 Total(a)	1986 Exploratory	1986 Development	1986 Total(a)
Alabama	79	133	214	84	133	217	121	262	383	143	217	360	77	143	220
Alaska	10	200	227	3	157	163	10	165	186	5	98	104	2	176	184
Offshore(b)	0	8	11	0	6	6	0	2	2	0	6	6	0	8	8
Arizona	7	1	14	11	1	12	2	0	2	2	1	3	6	0	6
Arkansas	128	680	825	154	723	900	133	730	897	122	875	1,018	85	399	484
Atlantic Coast(d)	7	0	7	1	0	1	3	0	3	0	0	0	0	0	0
California	468	2,107	3,097	195	2,143	2,733	204	3,276	3,898	201	3,122	3,599	142	1,993	2,252
Offshore(b)	16	175	231	16	77	103	13	104	132	4	84	92	0	41	41
Colorado	653	1,173	1,832	504	978	1,484	579	1,221	1,806	563	966	1,551	285	742	1,029
Florida	12	9	21	13	7	20	12	12	24	10	11	21	6	8	14
Georgia	1	0	1	0	0	0	3	0	3	1	0	1	2	0	2
Idaho	6	0	6	4	0	4	3	0	3	3	0	3	4	0	4
Illinois	695	2,433	3,253	729	2,181	3,035	699	2,194	2,941	537	1,840	2,381	307	1,021	1,343
Indiana	451	571	1,051	453	534	1,022	404	523	990	403	540	972	152	272	443
Iowa	0	0	0	0	0	0	0	0	0	1	0	1	3	0	3
Kansas	1,838	6,491	8,561	1,718	5,542	7,265	2,346	4,088	6,550	1,503	3,986	5,584	1,110	2,029	3,146
Kentucky	1,119	2,583	3,804	1,375	2,721	4,232	972	2,781	3,844	635	1,976	2,643	196	814	1,016
Louisiana	801	4,244	5,117	592	4,359	5,048	763	6,001	6,891	621	4,754	5,450	427	2,238	2,669
Offshore(b)	157	432	589	114	685	801	197	704	901	165	481	647	146	344	493
Maryland	0	0	0	0	0	0	2	0	2	0	0	0	1	0	1
Michigan	449	435	900	302	457	772	536	568	1,121	454	394	863	259	265	541
Mississippi	268	316	584	252	298	550	282	332	615	260	312	572	109	185	295
Missouri	79	104	305	43	133	243	28	85	260	15	62	84	5	5	10
Montana	275	536	816	181	326	511	251	557	820	222	385	609	143	205	348
Nebraska	197	212	414	187	181	369	180	186	377	160	114	277	85	55	156
Nevada	11	0	13	7	1	8	32	5	37	25	9	34	20	0	20
New Mexico	314	1,733	2,100	192	1,301	1,527	225	1,398	1,668	288	1,434	1,743	157	760	934
New York	44	623	668	41	370	413	30	579	609	18	418	436	11	246	257
North Carolina	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0
North Dakota	371	325	696	211	278	489	279	421	700	219	278	497	126	93	219
Ohio	180	4,618	4,814	114	4,150	4,288	108	4,818	4,958	84	3,652	3,743	31	1,906	1,946
Oklahoma	707	10,660	11,390	567	8,340	8,943	515	8,990	9,579	406	7,133	7,617	219	4,315	4,570
Oregon	8	0	3	0	0	0	1	0	1	3	2	5	8	2	10
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	165	3,168	3,399	92	2,324	2,465	102	3,358	3,533	60	2,718	2,806	24	1,234	1,258
South Carolina	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
South Dakota	33	20	53	34	18	52	16	28	44	16	31	49	17	0	17
Tennessee	413	214	627	328	189	517	164	202	366	117	120	237	57	125	182
Texas	5,077	19,707	25,439	4,524	18,897	24,089	5,111	21,810	27,696	4,174	19,225	24,291	2,520	10,253	13,253
Offshore(b)	141	99	240	109	53	162	111	78	189	118	93	216	50	52	102
Utah	149	313	482	132	283	415	112	380	493	54	302	359	37	159	198
Virginia	26	71	97	14	21	35	3	64	67	3	85	88	7	132	139
Washington	5	0	8	1	0	5	1	0	7	2	2	4	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	156	1,921	2,114	60	1,536	1,619	37	1,846	1,919	35	1,393	1,432	15	872	887
Wyoming	537	1,124	1,719	473	997	1,508	607	1,142	1,804	552	918	1,533	363	452	830
N. Gulf of Mexico(c)	22	26	48	13	42	55	57	26	83	95	29	124	61	49	110
Pacific Coast(d)	4	0	4	22	0	22	12	0	12	4	0	4	4	4	3
Alaska(d)	1	0	1	0	0	0	2	0	2	10	0	10	4	2	6
Total	15,766	66,751	84,729	13,627	59,421	75,032	14,949	68,057	85,196	12,026	57,402	71,108	7,087	31,154	39,010

See notes and sources at end of table

Section III
Table 15d

United States Total Wells Reported as Completed by State

STATE/AREA	1987 Exploratory	1987 Development	1987 Total(a)	1988 Exploratory	1988 Development	1988 Total(a)	1989 Exploratory	1989 Development	1989 Total(a)	1990 Exploratory	1990 Development	1990 Total(a)
Alabama	69	203	272	100	233	333	110	395	505	99	724	823
Alaska	4	89	96	5	132	144	6	95	117	5	80	93
Offshore(b)	0	3	5	0	10	12	1	6	9	0	7	8
Arizona	4	0	4	1	0	1	1	0	1	0	4	4
Arkansas	90	323	413	58	372	430	58	253	312	52	228	280
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0
California	170	2,167	2,538	125	1,781	2,133	127	1,534	1,751	87	1,446	1,588
Offshore(b)	6	36	42	4	32	37	5	24	31	0	13	21
Colorado	258	628	890	292	740	1,033	319	595	918	219	618	839
Florida	4	5	9	7	3	10	9	2	11	9	1	10
Georgia	1	0	1	2	0	2	0	0	0	0	0	0
Idaho	1	0	1	2	0	2	0	0	0	0	0	0
Illinois	235	981	1,323	307	778	1,230	263	529	830	165	463	660
Indiana	154	180	352	113	147	279	75	117	197	39	78	126
Iowa	1	0	1	1	0	1	5	0	5	2	0	2
Kansas	1,247	1,983	3,236	994	2,007	3,005	883	1,656	2,542	750	1,287	2,037
Kentucky	190	995	1,201	169	1,028	1,197	156	758	916	53	315	370
Louisiana	347	2,057	2,404	346	1,906	2,253	255	1,343	1,604	196	1,095	1,291
Offshore(b)	125	363	488	176	455	631	102	277	379	52	115	167
Maryland	1	0	1	2	0	2	0	0	0	0	0	0
Michigan	274	252	537	254	383	640	184	656	842	117	687	807
Mississippi	115	201	317	138	207	345	132	159	291	115	137	252
Missouri	6	12	18	10	2	12	5	1	6	3	4	7
Montana	99	188	298	139	208	355	63	165	228	61	201	264
Nebraska	128	65	204	91	43	135	63	40	103	74	32	106
Nevada	13	2	15	15	3	21	13	7	20	19	9	31
New Mexico	155	627	800	111	769	889	95	805	914	70	990	1,078
New York	8	246	254	8	171	179	4	100	104	3	6	9
North Carolina	1	0	1	0	0	0	0	0	0	0	0	0
North Dakota	98	88	186	137	118	256	80	102	182	94	92	187
Ohio	42	1,752	1,794	40	1,339	1,382	21	1,196	1,218	35	714	749
Oklahoma	244	3,579	3,883	258	3,054	3,368	211	2,529	2,809	220	1,986	2,249
Oregon	6	4	10	11	4	18	8	6	14	1	2	3
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	30	1,110	1,141	42	997	1,039	32	850	882	15	264	279
South Carolina	0	0	1	1	0	1	0	0	0	0	0	0
South Dakota	9	6	15	9	10	20	7	7	14	7	4	11
Tennessee	34	131	165	10	75	85	8	48	56	3	26	29
Texas	2,224	8,663	11,259	1,976	7,570	9,978	1,677	6,419	8,434	1,299	5,825	7,313
Offshore(b)	59	58	117	91	93	184	67	90	157	60	32	92
Utah	48	71	122	45	86	133	25	57	84	17	52	69
Virginia	2	19	21	4	25	29	2	20	22	0	6	6
Washington	1	0	1	3	0	3	3	0	3	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	20	842	862	11	654	665	6	776	782	0	633	633
Wyoming	328	448	809	322	391	731	192	371	580	191	360	617
N. Gulf of Mexico(c)	44	32	76	89	44	133	69	47	116	34	12	46
Pacific Coast(d)	0	6	6	1	5	6	0	5	5	0	0	0
Alaska(d)	0	1	1	1	0	1	1	0	1	2	0	2
Total	6,705	27,956	35,538	6,241	25,285	32,479	5,168	21,643	27,413	4,056	18,381	22,870

See notes and sources at end of table

United States Total Wells Reported as Completed by State

(a) Includes service wells, stratigraphic and core tests.
(b) Included in state total.
(c) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.
(d) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.
(e) Total includes one well completed in Minnesota
(f) Total includes one exploratory well completed in Vermont
(g) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970 the statistics show the year in which the wells were completed, regardless of the time frame in which they were reported to the API.
(h) Total includes one well completed offshore Massachusettes, and one completed in New Jersey.

SOURCE: 1967-1969: American Petroleum Institute and the American Association of Petroleum Geologists.
1970-1981: American Petroleum Institute, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1990: American Petroleum Institute, Quarterly Completion Reports.

United States Rotary Rig Census

Year	Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	Drilling Depth Capabilities (Thousand Feet) 0-5	6-9	10-12	13-15	16-Over	Total Land Rigs	Drilling Barges	Offshore Rigs
1967 (a)	2,408	2,359	49	835	1,573	623	776	435	199	375	2,114	121	173
1968	2,111	2,067	44	603	1,508	493	680	381	185	372	1,825	114	172
1969	2,060	2,033	27	411	1,649	528	626	352	188	366	1,827	98	135
1970	1,898	1,869	29	567	1,331	434	580	322	219	343	1,662	106	130
1971	1,859	1,832	27	551	1,308	436	535	329	198	361	1,592	124	143
1972	1,768	1,741	27	387	1,381	409	490	301	171	397	1,551	77	140
1973	1,767	1,739	28	294	1,473	355	517	318	164	413	1,570	71	126
1974	1,894	1,881	13	125	1,769	387	529	339	214	425	1,715	66	113
1975	2,028	2,014	14	151	1,877	396	579	380	225	558	1,839	74	115
1976	2,204	2,180	24	225	1,979	468	633	366	239	498	1,964	76	164
1977	2,482	2,451	31	83	2,399	542	628	461	274	577	2,186	77	219
1978	2,851	2,818	33	66	2,785	557	723	565	313	693	2,524	91	236
1979	3,182	3,144	38	308	2,874	546	783	631	350	872	2,802	109	271
1980	3,672	3,626	46	130	3,542	605	885	704	419	1,059	3,255	115	302
1981	4,803	4,762	41	100	4,703	773	1,080	950	595	1,405	4,316	161	326
1982	5,644	5,606	38	2,419	3,225	821	1,285	1,104	717	1,717	5,139	157	348
1983	5,273	5,241	32	2,734	2,539	746	1,233	993	662	1,639	4,832	128	313
1984	4,580	4,553	27	1,490	3,090	571	1,077	933	591	1,408	4,102	131	347
1985	4,409	4,386	23	1,784	2,625	529	1,084	894	570	1,332	3,940	121	348
1986	3,993	3,961	32	2,941	1,052	517	971	789	496	1,220	3,573	90	330
1987	3,331	3,299	32	1,943	1,388	435	841	637	427	991	2,956	91	284
1988	2,752	2,716	36	1,220	1,532	336	751	529	365	771	2,429	64	259
1989	2,542	2,508	34	1,098	1,444	294	700	515	329	704	2,249	63	230
1990	2,320	2,294	26	643	1,677	276	623	488	313	620	2,061	54	205

(a) Data for prior years not available on a comparable basis.

SOURCE: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year and published in the October issue of World Oil Magazine)

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	2
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	8	10
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	7
Arkansas	160	165	168	179	190	200	230	240	240	255	260	300	320	370	485	480	490
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652	774	826	879
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466	462	451	501
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45	74	30	25
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350	300	290	285
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003	6,633	6,915	7,050
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829	5,119	5,200	5,210
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479	6,990	7,442	7,859
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	38	38	34	33	33
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154	155	174	175
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400	472	490	450
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	0	9	9	6	6
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999	981	954	905
Nebraska	0	0	0	0	0	0	0	0	0	0	0	0	50	53	49	47	44
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047	6,491	6,967	7,150
New York	1,700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000	1,109	1,130	1,130
North Dakota	0	0	0	0	0	0	0	0	0	0	0	0	28	28	28	29	31
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063	7,077	7,117	7,128
Oklahoma	3,250	3,400	3,500	3,600	3,600	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800	6,218	6,324	6,639
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350	16,500	16,600	16,600
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee(a)	0	18	18	18	20	20	27	28	28	28	30	30	25	30	23	30	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612	19,831	20,834	22,016
Utah	0	0	0	0	0	0	0	0	0	0	0	0	37	35	135	121	135
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	53	92	98	98	98
West Virginia	15,800	16,100	15,500	13,900	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500	16297	17,121	17,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350	460	547	578
Other	30	34	40	43	70	100	109	117	125	130	145	170	0	0	0	0	0
Total	63,670	64,212	64,146	64,900	65,100	65,450	68,223	70,192	71,475	74,261	77,041	80,400	83,225	90,761	96,809	100,267	102,966

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	0	0	0	0	1	1	2	0	15	15	6	45	66	69	189	250	314
Alaska	13	11	19	21	18	44	51	40	50	52	52	61	50	50	52	58	71
Arizona	10	8	9	7	4	4	4	5	4	4	1	1	1	1	1	1	1
Arkansas	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172	1,128	1,223	1,253	1,335	1,402	1,114
California	950	1,033	1,068	1,059	994	997	980	962	1,086	1,095	1,142	1,585	1,123	1,050	1,131	1,117	1,125
Colorado	560	701	826	827	810	805	861	928	934	1,050	1,347	1,380	1,500	2,053	2,318	2,574	2,997
Illinois	25	25	3	3	5	5	8	14	31	36	37	41	34	34	51	51	70
Indiana	280	275	275	271	265	263	50	83	87	106	474	478	563	596	641	655	698
Kansas	7,174	7,200	8,608	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800	8,865	9,330	9,375	9,450	10,544	12,820
Kentucky	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307	7,386	7,505	7,649	7,776	7,883	7,984
Louisiana	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248	11,359	11,370	12,484	13,333	14,464	16,190
Maryland	16	20	8	13	16	13	16	14	16	15	15	15	14	12	12	12	9
Michigan	195	226	250	244	199	211	1,236	1,171	1,317	1,145	503	209	214	212	376	376	423
Mississippi	435	370	376	360	347	322	325	400	252	250	239	248	257	365	402	433	447
Missouri	6	11	11	11	11	11	11	2	3	2	3	3	3	7	7	0	0
Montana	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450	1,235	1,490	1,438	1,755	1,881	1,881
Nebraska	41	39	37	37	36	35	35	29	29	29	25	19	17	18	22	20	22
New Mexico	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915	10,352	10,674	11,812	12,609	13,598	14,571
New York	1,155	1,150	1,164	1,159	1,156	818	600	600	650	789	700	900	1,400	1,600	1,900	2,200	2,076
North Dakota	31	31	31	31	19	33	29	29	21	44	33	18	34	34	23	78	80
Ohio	7,160	7,100	3,790	3,865	7,211	7,334	7,789	8,179	8,630	9,406	10,038	10,382	11,509	13,032	14,197	15,827	17,251
Oklahoma	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401	9,769	10,436	11,570	12,861	14,417	16,419
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Pennsylvania	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,000	16,600	17,123	17,300	17,500	17,391	18,900	19,800	19,900
South Dakota	0	0	0	0	0	0	0	0	5	10	20	20	20	20	20	10	13
Tennessee(a)	30	20	20	21	23	26	15	20	45	6	13	5	7	49	75	184	177
Texas	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646	26,184	27,762	31,512	33,157	35,650	37,724
Utah	135	148	156	168	165	171	173	178	200	158	114	271	71	535	171	182	200
Virginia	100	99	104	104	111	111	115	115	130	178	174	186	180	202	227	258	258
West Virginia	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450	21,700	22,100	22,600	23,575	24,725	25,900
Wyoming	610	701	741	749	787	521	800	840	887	850	900	950	990	995	888	1,236	1,264
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	103,084	111,680	112,498	112,321	114,391	114,476	117,483	120,210	121,158	124,178	126,349	132,095	137,443	148,018	157,454	169,891	182,004

See notes and sources at end of table

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	385	489	461	690	863	1,029	1,135	1,264	1,701	2,362
Alaska	79	97	78	81	84	85	85	91	108	111
Arizona	1	1	1	1	1	1	0	0	3	5
Arkansas	1,600	1,959	1,763	2,371	2,623	2,719	2,847	2,996	2,830	2,952
California	1,110	1,362	1,413	1,469	1,566	1,316	1,294	1,469	1,214	1,162
Colorado	3,543	4,008	4,391	4,549	4,401	4,398	4,530	4,426	5,125	5,741
Illinois	70	57	64	81	123	152	169	293	241	356
Indiana	720	736	737	758	1,272	1,289	1,298	1,295	1,310	1,307
Kansas	15,550	13,800	14,100	4,925	15,980	11,485	13,631	15,300	13,935	16,980
Kentucky	8,151	8,219	8,532	8,798	9,285	9,747	10,366	10,777	11,248	11,713
Louisiana	17,048	16,586	16,700	17,124	16,716	15,313	15,890	14,071	16,309	16,889
Maryland	10	6	8	9	7	6	8	8	8	7
Michigan	448	484	414	536	666	651	722	988	1,207	[illegible]438
Mississippi	470	696	562	683	710	414	775	634	543	585
Missouri	0	0	0	4	4	9	3	4	4	8
Montana	2,140	2,111	2,133	2,153	2,260	2,799	2,349	2,553	2,700	2,607
Nebraska	25	23	23	23	19	16	20	18	15	11
New Mexico	15,560	16,967	17,547	17,806	18,308	18,647	18,806	15,909	17,087	17,124
New York	2,636	2,969	3,423	3,500	4,500	4,947	5,167	5,090	5,304	5,525
North Dakota	65	66	51	56	62	61	61	61	61	103
Ohio	19,405	22,112	25,762	28,657	31,343	32,721	33,616	33,793	34,450	34,586
Oklahoma	18,451	20,742	22,230	3,691	24,756	25,762	26,595	27,307	27,443	24,547
Oregon	9	6	8	6	9	14	10	14	18	19
Pennsylvania	21,500	23,000	24,000	25,500	26,500	27,600	27,800	28,000	30,000	30,300
South Dakota	39	38	40	42	44	44	52	51	53	54
Tennessee(a)	255	340	540	780	988	921	840	802	700	690
Texas	40,612	44,130	44,699	45,139	44,320	42,713	43,375	50,588	48,609	50,867
Utah	226	282	322	700	755	594	645	665	834	822
Virginia	288	298	299	425	495	573	689	728	752	819
West Virginia	27,200	27,450	29,675	31,150	32,475	33,400	34,300	35,800	36,240	37,500
Wyoming	1,243	1,827	1,986	2,148	2,220	2,101	2,147	2,284	2,431	2,600
Other	0	0	0	0	0	0	0	0	0	0
Total	198,839	210,753	221,952	233,853	243,344	241,527	249,225	257,279	262,483	269,790

(a) Prior to 1948 included with Kentucky.
(b) Includes offshore wells in state waters only.

SOURCE: 1947-1980: U.S. Bureau of Mines, Natural Gas Annuals
1981-1990: U.S. Energy Information Administration, Natural Gas Annuals.

Section III
Table 18

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Alabama	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	221	281	344	380	418	449	502	519
Alaska	--	--	--	--	--	--	--	--	--	--	--	2	5	17	45	52	54	56
Arizona	--	--	--	--	--	--	--	--	--	--	--	1	2	3	5	4	9	8
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381	6,330	5,918	6,010	6,018
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771	38,184	39,265	40,233	40,916
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021	2,023	2,110	2,030	1,981
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	11	11	11	11	11	11	12	19
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995	31,911	30,174	30,149	29,500
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176	5,679	5,607	5,951	5,381
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460	40,933	46,750	46,951	46,715
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571	19,857	19,448	14,903	15,226
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682	24,740	26,382	27,638	29,452
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348	4,301	4,282	4,234	4,151
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3,086	2,819	2,560	2,682	2,580
Missouri	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	107	127	121	120	116	105	105	100
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707	3,342	3,692	3,642	3,329
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571	1,860	1,764	1,726	1,711
Nevada	--	--	--	--	--	--	(a)	--	--	--	2	2	2	2	4	4	4	5
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286	15,295	16,102	16,796	17,570
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579	17,829	13,537	13,431	12,526
North Dakota	--	--	--	(a)	(a)	83	257	460	570	789	920	1,150	1,390	1,451	1,683	1,794	1,824	1,881
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743	16,682	16,867	14,605	13,752
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720	79,387	80,799	81,475	80,511
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260	63,576	59,673	54,062	53,065
South Dakota	--	--	--	--	--	--	(a)	(a)	(a)	(a)	3	4	14	19	19	19	24	24
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	35	35	34	27	30	40	39	38
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934	196,396	197,659	198,070	199,119
Utah	--	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	225	519	697	796	795	852	835	840
Virginia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	4	6	7	5	5	5	6	8
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560	12,762	12,880	13,044	13,205
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475	7,880	7,581	7,611	8,019
Other	140	160	190	230	270	297	333	364	366	422	--	1	1	1	--	--	--	--
U.S. Federal Waters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	426,280	437,880	448,680	465,870	474,990	488,520	498,940	511,200	524,010	551,170	569,273	574,905	583,141	591,158	594,917	596,385	588,657	588,225

See notes and sources at end of table

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	518	524	532	546	550	562	556	544	586	582	608	633	631	648	660	684	692	719
Alaska	57	72	94	163	183	202	173	193	192	199	205	181	298	348	396	443	700	760
Arizona	10	6	20	22	29	28	30	28	28	25	28	27	29	34	35	31	35	36
Arkansas	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529	7,756	7,866	8,115	8,104	8,249	8,629
California	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534	43,525	43,375	43,838	45,086	47,362	47,231
Colorado	1,938	2,371	1,730	1,825	1,811	1,770	1,785	1,897	2,004	2,174	2,450	2,827	3,027	3,260	3,450	3,490	2,898	3,113
Florida	38	42	41	44	45	60	78	142	147	136	143	143	140	111	115	121	117	123
Illinois	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527	23,752	23,900	24,067	24,871	26,100	27,600
Indiana	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891	5,076	5,296	5,452	5,452	5,715	6,047
Kansas	47,354	46,016	47,597	45,145	44,665	43,460	42,180	41,055	41,520	41,755	41,945	42,240	42,450	42,900	43,200	48,037	42,402	46,189
Kentucky	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970	14,046	14,097	14,172	14,539	14,585	15,109
Louisiana	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274	23,881	24,500	24,767	26,014	25,320	22,380
Michigan	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770	3,903	3,890	3,890	4,900	4,417	4,536
Mississippi	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212	2,806	2,956	3,263	3,676	3,154	2,640
Missouri	142	150	146	128	164	126	139	137	135	157	163	173	175	167	251	258	421	499
Montana	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309	3,330	3,400	3,661	3,618	3,968	4,311
Nebraska	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291	1,382	1,469	1,551	1,693	1,870	2,006
Nevada	9	10	13	13	11	9	6	6	6	9	6	12	18	16	20	20	(a)	(a)
New Mexico	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939	14,338	17,453	21,526	15,103	16,289	16,526
New York	12,304	11,832	4,712	4,201	5,263	5,861	5,860	5,427	5,200	5,475	4,975	5,100	4,800	5,039	5,100	5,220	5,300	5,320
North Dakota	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568	1,608	2,305	2,624	2,938	2,570	2,870
Ohio	13,947	14,192	14,638	15,480	15,737	15,860	14,771	15,222	15,236	16,658	16,611	16,761	17,338	18,289	19,596	21,132	22,441	24,752
Oklahoma	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543	73,752	75,308	76,505	81,296	82,639	91,745
Pennsylvania	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805	28,400	27,768	27,925	25,991	26,138	25,285
South Dakota	28	29	28	27	26	26	33	29	27	31	38	43	69	85	94	97	120	130
Tennessee	33	32	33	32	35	59	78	73	67	154	172	215	283	311	351	435	489	650
Texas	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546	163,746	166,365	169,826	175,673	180,627	187,626
Utah	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188	1,448	1,291	1,560	1,714	1,543	1,583
Virginia	6	2	4	5	5	5	1	1	--	3	7	7	4	5	7	8	(a)	(a)
West Virginia	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800	13,900	14,100	14,250	14,425	14,700	14,900
Wyoming	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052	11,123	10,200	11,128	12,648	11,574	11,792
Other	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	39	50
U.S. Federal Waters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,535	4,985
Total	589,203	583,302	565,289	553,920	542,227	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752	531,395	547,717	557,009	580,142

See notes and sources at end of table

Section III
Table 18b

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	741	759	810	844	875	892	931	872
Alaska	672	640	977	1,109	1,216	1,305	1,337	1,466
Arizona	34	31	28	24	23	20	25	22
Arkansas	8,370	9,490	9,700	10,047	8,398	7,865	7,865	7,265
California	47,197	48,541	49,874	43,717	45,694	45,819	43,745	43,375
Colorado	4,591	5,360	5,457	5,502	5,642	6,286	6,362	6,596
Florida	137	138	149	114	122	109	101	83
Illinois	28,967	30,045	31,100	32,025	32,307	32,262	32,441	31,874
Indiana	6,465	6,792	7,164	7,610	7,449	7,449	7,543	7,506
Kansas	49,348	49,198	51,888	48,816	48,051	47,484	44,969	45,470
Kentucky	15,562	19,980	21,844	22,639	22,974	22,883	22,859	22,741
Louisiana	23,376	24,508	26,354	29,921	29,758	27,079	22,872	23,812
Michigan	4,913	4,881	5,143	4,885	4,996	4,866	5,557	4,570
Mississippi	2,727	2,562	3,468	2,235	2,143	2,050	3,589	2,169
Missouri	552	557	581	450	200	286	807	854
Montana	4,675	4,201	4,196	3,933	4,050	4,128	4,001	3,846
Nebraska	2,100	2,095	2,091	1,838	1,852	1,824	1,787	1,440
Nevada	(a)	37	45	29	35	38	46	46
New Mexico	17,409	18,146	18,697	18,409	18,401	17,890	17,787	18,546
New York	5,432	4,678	4,811	4,632	4,428	4,245	4,350	4,043
North Dakota	3,734	3,404	3,697	3,543	3,474	3,511	3,442	3,546
Ohio	26,287	26,878	27,975	29,937	30,013	30,134	30,194	30,089
Oklahoma	95,868	99,600	102,342	100,261	101,745	97,685	96,344	81,667
Pennsylvania	24,657	20,739	24,000	20,000	14,271	28,000	27,218	22,338
South Dakota	140	138	165	148	149	151	156	149
Tennessee	693	775	798	806	648	720	713	736
Texas	195,595	203,664	209,040	201,272	198,163	198,008	186,226	188,829
Utah	1,634	1,799	1,944	1,858	1,785	1,849	2,234	1,972
Virginia	(a)	(a)	28	32	29	29	20	25
West Virginia	15,300	15,475	15,895	15,750	15,850	15,950	15,940	15,950
Wyoming	11,349	11,561	12,038	11,879	10,953	11,850	11,539	11,397
Other	55	31	0	0	0	0	0	0
U.S. Federal Waters	4,710	4,104	4,327	4,425	4,487	4,526	3,881	4,468
Total	603,290	620,807	646,626	628,690	620,181	627,193	606,881	587,762

(a) Included in Other.

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990: World Oil Magazine, Forecast Review Issue, February

Producing Oil Wells by State and by Type
(As of December 31)

State	1947		1948		1949		1950		1951		1952		1953	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	33	0	33	0	39	0	58	0	75	4	92	2	110
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	378	2,992	340	3,040	291	3,076	361	3,266	312	3,329	350	3,578	336	3,699
California	2,363	22,792	2,136	24,413	2,373	22,127	2,143	25,963	1,934	27,656	1,866	29,005	1,834	29,950
Colorado	127	411	113	611	87	662	191	572	135	700	85	886	132	1,098
Florida	4	1	5	3	5	6	1	11	1	11	1	11	0	12
Illinois	68	28,405	58	30,261	71	31,169	16	33,113	12	32,873	7	33,727	5	34,417
Indiana	2	2,807	18	3,252	35	3,739	12	3,946	18	4,222	22	4,473	9	4,825
Kansas	85	26,846	143	24,975	62	29,033	73	30,093	45	31,215	58	32,018	42	33,272
Kentucky	0	14,509	0	14,554	0	14,895	5	15,260	36	15,524	0	15,806	0	16,234
Louisiana	3,168	4,516	3,367	5,508	3,320	6,689	3,477	7,667	3,417	8,106	3,591	8,770	4,354	8,583
Michigan	276	3,356	296	3,131	387	3,268	141	3,577	155	3,730	134	3,858	123	3,863
Mississippi	416	636	495	737	476	886	280	1,168	126	1,466	206	1,504	307	1,536
Missouri	0	36	0	48	0	88	0	46	0	43	0	70	0	91
Montana	24	2,455	24	3,140	39	2,865	20	3,086	22	3,188	30	3,286	51	3,421
Nebraska	0	55	0	46	0	62	35	107	27	181	2	221	0	302
Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	3,636	1,395	3,288	2,004	3,014	2,509	3,232	2,597	3,283	2,768	3,462	3,141	3,644	3,606
New York	0	23,000	0	23,000	0	23,400	0	23,200	0	23,100	0	23,000	0	23,000
North Dakota	0	0	0	0	0	0	0	0	2	0	68	17	179	73
Ohio	50	22,825	65	22,945	60	21,740	50	19,750	50	18,450	40	19,410	70	19,400
Oklahoma	1,485	50,405	1,380	51,731	1,426	52,934	1,740	55,086	1,605	56,715	1,485	58,762	2,120	60,956
Pennsylvania	0	82,800	0	84,000	0	82,100	0	82,200	0	81,200	0	81,200	0	80,500
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tennessee	0	22	0	29	0	35	0	36	0	34	0	35	0	29
Texas	37,070	67,909	37,970	71,673	39,203	76,280	41,949	81,322	44,016	86,293	45,784	90,615	45,976	94,884
Utah	0	0	2	1	22	0	3	30	4	38	10	51	3	66
Virginia	0	12	0	15	0	15	0	15	0	15	0	25	0	25
Washington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	17,000	0	16,200	0	15,900	0	15,200	0	14,600	0	14,200	0	13,600
Wyoming	247	3,905	336	4,222	464	4,452	323	4,887	313	5,292	242	4,614	278	4,841
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	49,399	379,123	50,036	389,572	51,335	397,969	54,052	412,256	55,513	420,824	57,447	432,375	59,465	442,394

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1954 Flowing	1954 Artificial Lift	1955 Flowing	1955 Artificial Lift	1956 Flowing	1956 Artificial Lift	1957 Flowing	1957 Artificial Lift	1958 Flowing	1958 Artificial Lift	1959 Flowing	1959 Artificial Lift	1960 Flowing	1960 Artificial Lift
Alabama	5	108	11	102	62	97	35	181	27	227	29	244	0	380
Alaska	0	0	0	0	0	0	0	0	1	0	5	0	18	0
Arizona	0	0	0	0	0	0	0	0	0	0	1	0	2	1
Arkansas	270	3,925	410	4,057	382	4,419	246	5,173	232	5,417	178	5,881	183	5,810
California	1,770	31,303	1,759	32,571	1,599	34,625	1,496	35,756	1,290	35,170	1,115	36,101	1,196	36,388
Colorado	97	1,633	345	1,784	433	1,724	572	1,612	573	1,625	382	1,701	127	1,892
Florida	0	13	0	11	0	11	0	11	0	11	0	11	0	11
Illinois	10	35,155	27	36,758	29	37,689	213	37,828	231	38,366	128	38,736	67	38,239
Indiana	3	4,954	23	5,011	19	5,160	300	4,816	173	5,094	169	5,303	86	5,381
Kansas	31	34,523	121	35,452	127	36,986	103	38,466	131	39,133	243	39,921	312	46,270
Kentucky	0	16,593	12	17,008	21	17,681	19	18,238	8	18,982	19	21,137	13	20,733
Louisiana	4,937	9,588	5,855	10,817	6,998	11,737	7,991	12,224	8,537	13,176	9,280	13,805	8,896	14,389
Michigan	190	3,842	550	3,689	550	3,453	615	3,397	41	4,198	59	4,332	850	3,704
Mississippi	319	1,547	497	1,617	628	1,801	327	2,005	352	2,087	383	2,236	277	2,347
Missouri	0	89	0	97	0	130	0	120	0	119	0	95	0	121
Montana	110	3,641	311	3,587	512	3,516	585	3,261	407	3,210	331	3,375	33	3,478
Nebraska	0	547	31	932	19	1,602	87	1,616	26	1,320	21	1,473	15	1,627
Nevada	0	1	0	3	0	3	0	2	0	2	0	2	0	2
New Mexico	3,710	3,656	3,502	4,727	3,563	5,424	4,259	5,809	3,972	6,839	4,530	7,657	5,323	7,261
New York	0	22,500	0	22,300	0	21,300	0	19,200	0	19,765	0	19,275	0	19,000
North Dakota	353	88	444	92	458	313	543	395	503	640	392	988	74	1,343
Ohio	90	15,210	80	14,660	75	14,745	130	14,700	175	14,850	160	14,768	150	14,560
Oklahoma	2,860	64,551	3,180	71,430	2,773	73,019	2,264	75,623	2,771	76,981	2,987	78,128	3,147	80,459
Pennsylvania	0	80,000	0	78,500	0	76,500	0	69,700	0	68,050	0	67,580	10	65,000
South Dakota	0	2	0	3	0	3	0	3	1	3	0	11	0	19
Tennessee	0	44	0	25	0	40	0	35	0	31	0	30	0	27
Texas	47,032	100,712	47,669	108,811	48,513	117,473	48,098	125,861	47,897	131,781	47,366	138,298	45,722	143,789
Utah	1	81	2	68	23	87	129	210	307	241	346	317	352	404
Virginia	0	25	0	25	0	20	0	0	0	0	0	0	0	8
Washington	0	0	0	-0	0	0	2	0	1	0	1	0	1	0
West Virginia	0	13,000	0	12,500	0	12,000	0	12,700	0	12,740	0	12,885	0	12,950
Wyoming	368	5,321	535	5,681	473	5,959	513	6,074	467	6,334	489	6,629	413	7,117
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	62,156	452,651	65,364	472,318	67,257	487,517	68,527	495,016	68,123	506,392	68,614	520,919	67,267	532,710

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1961 Flow-ing	1961 Artificial Lift	1962 Flow-ing	1962 Artificial Lift	1963 Flow-ing	1963 Artificial Lift	1964 Flow-ing	1964 Artificial Lift	1965 Flow-ing	1965 Artificial Lift	1966 Flow-ing	1966 Artificial Lift	1967 Flow-ing	1967 Artificial Lift
Alabama	0	414	0	447	0	499	0	479	0	530	0	520	4	529
Alaska	45	0	50	2	48	7	37	17	25	35	42	15	70	19
Arizona	0	4	0	13	0	5	0	10	6	4	6	4	(a)	(a)
Arkansas	190	6,267	543	5,301	160	5,239	150	5,950	212	5,730	104	5,453	197	6,237
California	1,033	37,203	1,213	37,980	1,251	39,099	1,270	39,510	1,204	40,323	1,176	40,516	1,026	40,597
Colorado	115	1,864	110	1,865	72	1,888	58	1,832	61	1,771	42	1,649	37	1,773
Florida	0	11	0	11	0	12	0	16	2	36	0	41	(a)	(a)
Illinois	74	39,381	0	30,196	0	30,114	0	29,319	0	29,012	20	28,550	0	27,874
Indiana	84	5,792	0	5,887	0	5,937	0	5,949	0	4,149	0	4,149	0	3,637
Kansas	270	46,920	275	47,286	278	47,587	300	48,700	300	46,200	300	40,622	400	45,925
Kentucky	15	20,746	0	19,800	0	19,000	0	15,726	0	15,600	0	16,000	500	13,500
Louisiana	9,420	14,612	10,951	14,691	11,692	16,037	12,401	17,260	12,982	17,921	12,338	18,546	12,435	18,511
Michigan	931	3,413	832	3,538	915	3,188	915	3,360	890	3,153	800	3,204	777	3,291
Mississippi	289	2,408	525	2,035	554	2,139	342	2,238	354	2,159	362	2,187	348	2,172
Missouri	0	120	0	111	0	118	0	87	0	100	0	142	(a)	(a)
Montana	33	3,404	41	3,659	36	3,552	34	3,960	46	3,677	11	3,582	38	3,724
Nebraska	18	1,967	0	1,855	5	1,769	5	1,733	5	1,614	0	1,493	4	1,457
Nevada	0	2	0	2	0	4	0	5	0	9	0	10	(a)	(a)
New Mexico	4,880	8,857	5,324	8,909	4,861	9,003	4,814	9,828	4,682	9,753	3,499	10,798	3,645	10,712
New York	0	18,000	0	13,500	0	13,100	0	12,800	0	11,700	100	12,200	100	12,000
North Dakota	92	1,453	567	1,015	600	1,206	453	1,428	524	1,439	315	1,718	250	1,513
Ohio	145	14,305	150	14,350	80	14,525	50	13,683	60	13,873	50	14,133	50	14,240
Oklahoma	3,775	81,048	3,750	77,795	3,840	77,686	3,857	76,602	3,800	76,200	4,000	77,477	4,000	76,971
Pennsylvania	0	61,896	0	56,900	20	55,360	22	53,043	18	52,713	75	50,570	50	45,376
South Dakota	0	24	0	18	0	24	0	24	0	29	0	29	(a)	(a)
Tennessee	0	30	0	30	0	40	0	41	0	42	0	34	(a)	(a)
Texas	44,936	147,587	44,202	149,526	42,218	152,251	40,481	154,088	39,052	155,618	36,160	155,281	33,060	155,761
Utah	349	602	320	500	318	520	15	926	9	852	10	861	15	981
Virginia	0	8	0	5	0	6	0	6	0	7	0	2	(a)	(a)
Washington	1	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	12,350	0	12,800	0	13,000	0	13,200	0	13,400	0	13,300	0	14,250
Wyoming	408	7,417	400	9,000	455	7,459	450	7,481	400	7,594	422	8,012	456	8,091
Other	--	--	--	--	--	--	--	--	0	0	0	0	3	263
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	67,103	538,105	69,253	519,027	67,403	520,374	65,654	519,601	64,632	515,243	59,832	511,098	57,465	509,404

See notes and sources at end of table

Section III
Table 19c

Producing Oil Wells by State and by Type
(As of December 31)

State	1968		1969		1970		1971		1972		1973		1974	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	5	542	7	467	8	468	14	524	27	499	44	510	35	384
Alaska	93	86	58	135	41	120	53	130	58	139	52	140	42	186
Arizona	0	(a)	0	0	(a)	(a)	0	29	1	22	1	22	0	28
Arkansas	83	5,896	106	6,012	100	6,100	60	7,086	69	7,168	96	6,328	123	6,993
California	1,428	40,103	1,390	39,505	1,350	37,718	1,300	39,298	421	39,865	496	42,847	453	39,777
Colorado	33	1,782	30	1,748	37	1,733	50	1,845	110	1,709	134	1,721	119	1,921
Florida	0	(a)	0	0	(a)	(a)	8	65	68	67	81	64	63	70
Illinois	0	27,242	0	26,737	0	26,298	0	25,369	0	24,736	0	24,307	0	23,718
Indiana	0	3,621	0	3,646	0	3,607	0	3,600	0	4,379	0	4,323	0	4,376
Kansas	400	44,755	350	44,390	350	44,315	325	41,960	325	40,730	319	42,181	275	41,480
Kentucky	609	13,000	532	13,220	502	14,000	557	14,100	560	14,056	100	14,316	0	14,129
Louisiana	11,018	19,015	10,756	18,861	9,064	19,214	7,534	18,216	7,388	19,208	6,203	21,666	6,545	21,428
Michigan	686	3,587	551	3,821	677	3,196	650	3,200	668	3,129	659	3,082	682	3,132
Mississippi	328	2,271	303	2,245	290	2,276	300	2,255	275	2,298	202	2,108	180	2,074
Missouri	0	(a)	0	0	(a)	(a)	0	139	0	138	0	135	0	137
Montana	14	3,252	25	3,460	3	3,159	23	3,707	19	3,196	3	3,533	7	3,021
Nebraska	3	1,404	2	1,369	6	1 299	4	1,190	4	1,176	0	1,118	0	1,109
Nevada	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
New Mexico	3,277	11,106	3,186	11,152	3,198	11,075	2,388	10,997	2,386	11,048	2,300	11,138	2,143	11,139
New York	0	11,500	0	9,500	0	5,000	0	5,860	0	5,500	0	5,400	0	5,475
North Dakota	224	1,503	495	1,155	229	1,506	263	1,453	225	1,340	224	1,237	243	1,245
Ohio	60	14,347	80	14,584	60	14,727	50	14,581	295	14,491	304	14,847	302	14,847
Oklahoma	4,000	76,999	4,000	76,947	4,000	74,212	4,000	71,549	4,000	69,807	3,943	69,082	3,879	67,969
Pennsylvania	50	35,950	50	33,950	70	30,555	70	29,731	80	26,949	75	32,521	75	30,825
South Dakota	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
Tennessee	0	(a)	0	0	(a)	(a)	12	59	16	40	6	61	31	56
Texas	31,525	152,452	28,934	149,837	26,199	146,014	24,305	149,902	22,680	148,689	19,998	139,314	20,063	140,011
Utah	15	881	15	867	23	884	46	828	87	812	82	1,362	230	989
Virginia	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
Washington	0	0	0	0	0	0	0	(a)	0	(a)	(a)	(a)	(a)	(a)
West Virginia	0	14,000	0	13,800	0	13,700	0	13,500	0	13,530	0	13,600	0	13,650
Wyoming	527	8,396	687	8,386	700	8,800	650	8,600	600	8,350	535	7,107	606	8,050
Other	0	263	0	289	21	273	0	36	0	72	10	31	9	28
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	54,378	493,953	51,557	486,083	46,928	470,249	42,662	469,809	40,362	463,143	35,867	464,101	36,105	458,247

See notes and sources at end of table

Section III
Table 19d

Producing Oil Wells by State and by Type
(As of December 31)

State	1975 Flowing	1975 Artificial Lift	1976 Flowing	1976 Artificial Lift	1977 Flowing	1977 Artificial Lift	1978 Flowing	1978 Artificial Lift	1979 Flowing	1979 Artificial Lift	1980 Flowing	1980 Artificial Lift	1981 Flowing	1981 Artificial Lift
Alabama	36	530	40	593	40	597	55	575	57	457	57	612	103	589
Alaska	36	164	38	152	135	156	188	178	240	160	412	230	296	404
Arizona	0	28	0	27	0	28	0	31	0	35	0	32	0	35
Arkansas	125	6,947	140	7,072	155	7,348	197	7,356	202	7,496	140	7,964	156	8,093
California	370	40,569	496	44,287	481	42,973	517	44,482	1,635	43,039	1,667	43,924	1,592	45,770
Colorado	108	2,232	111	2,265	213	2,832	226	3,001	183	3,219	188	3,302	151	2,747
Florida	72	72	66	78	144	0	50	65	43	72	40	80	42	75
Illinois	0	23,360	0	23,509	0	23,828	0	23,869	0	24,067	0	24,745	0	26,100
Indiana	0	4,366	0	4,798	0	4,891	0	5,076	0	5,296	0	5,452	0	5,715
Kansas	250	41,695	200	42,050	200	42,250	204	43,054	223	47,156	60	47,397	42	42,360
Kentucky	0	14,231	0	13,970	0	14,046	0	14,149	0	14,097	0	14,517	0	14,585
Louisiana	5,979	21,755	6,128	20,272	2,228	21,653	2,244	22,256	4,251	20,516	4,226	21,788	3.871	21,449
Michigan	548	3,107	608	3,162	603	3,300	547	3,343	547	3,343	585	3,524	631	3,786
Mississippi	160	2,077	149	2,063	152	2,108	88	2,166	91	2,465	120	2,511	144	3,010
Missouri	0	157	0	145	0	161	0	161	0	188	20	238	0	421
Montana	7	3,143	12	3,298	70	3,284	328	2,947	375	3,198	325	3,303	375	3,593
Nebraska	0	1,127	0	1,292	0	1,369	0	1,455	0	1,535	4	1,675	0	1,870
Nevada	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
New Mexico	2,255	11,395	2,313	11,533	2,405	11,860	2,144	12,254	2,723	12,322	2,565	13,181	2,986	13,303
New York	0	4,975	0	5,000	0	4,800	0	4,900	0	4,800	0	5,000	0	5,300
North Dakota	236	1,248	269	1,302	297	1,341	358	1,374	404	1,504	554	1,736	622	1,948
Ohio	288	14,877	310	15,143	347	17,016	362	17,735	384	18,793	409	20,042	447	21,994
Oklahoma	4,089	67,568	4,131	68,257	4,203	69,450	4,247	70,623	4,345	72,160	4,332	74,131	4,563	78,076
Pennsylvania	50	32,200	65	32,000	50	28,755	50	28,350	56	27,712	56	27,869	52	26,086
South Dakota	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	3	85	3	115	0	120
Tennessee	55	94	75	122	115	157	119	160	144	194	106	335	117	372
Texas	18,584	152,462	16,997	143,678	16,168	147,647	16,109	149,708	16,665	151,458	16,571	157,940	17,351	163,276
Utah	121	935	100	1,088	369	494	552	739	576	770	436	1,042	419	1,124
Virginia	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
Washington	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
West Virginia	0	13,750	0	13,800	0	13,900	0	14,100	0	14,225	0	14,425	0	14,700
Wyoming	662	8,788	720	9,307	725	9,378	718	9,293	724	9,335	736	9,491	833	10,741
Other	9	28	1	17	13	74	0	106	0	28	0	31	0	39
U.S. Federal Waters	--	--	--	--	2,702	829	2,624	805	915	2,344	917	2,349	3,267	1,268
U.S. Total	34,040	473,900	32,969	470,299	31815	476525	31927	484311	34786	492069	34529	508981	38060	518949

See notes and sources at end of table

Section III
Table 19e

Producing Oil Wells by State and by Type
(As of December 31)

State	1982		1983		1984		1985		1986		1987		1988	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	122	597	102	639	50	709	91	719	102	742	68	807	91	801
Alaska	330	430	406	266	370	270	481	496	591	518	621	595	654	651
Arizona	0	36	0	34	0	31	0	28	0	24	0	23	0	20
Arkansas	173	8,456	168	8,202	189	9,301	195	9,505	201	9,846	185	8,213	150	7,715
California	1,470	45,761	1,482	45,715	1,423	47,118	1,455	48,419	1,419	42,298	1,210	44,484	1,074	44,745
Colorado	218	2,895	304	4,287	571	4,789	491	4,966	490	5,012	491	5,151	534	5,752
Florida	50	73	62	75	57	81	67	82	46	68	57	65	51	58
Illinois	0	27,600	0	28,967	0	28,920	0	31,100	0	32,025	0	32,307	0	32,262
Indiana	0	6,047	0	6,465	0	6,792	0	7,164	0	7,610	0	7,449	0	7,449
Kansas	46	46,143	53	49,295	49	49,149	75	51,813	73	48,743	70	47,981	65	47,419
Kentucky	0	15,109	0	15,562	0	19,980	0	21,844	0	22,639	0	22,974	0	22,883
Louisiana	2,001	20,379	2,110	21,266	2,168	22,340	2,285	23,538	2,205	22,430	2,356	27,402	2,205	24,874
Michigan	636	3,900	663	4,250	749	4,132	600	4,525	635	4,250	652	4,344	630	4,236
Mississippi	132	2,508	135	2,592	259	2,303	116	3,352	179	2,056	188	1,955	207	1,843
Missouri	0	499	0	552	0	557	0	581	0	450	0	200	0	286
Montana	350	3,961	400	4,275	424	4,292	378	3,818	362	3,571	364	3,686	375	3,753
Nebraska	0	2,006	0	2,100	0	2,095	0	2,091	0	1,838	0	1,852	0	1,824
Nevada	0	(a)	0	(a)	(a)	(a)	4	41	6	23	3	32	7	31
New Mexico	3,068	13,458	3,161	14,248	3,303	14,843	3,444	15,253	3,403	15,006	3,460	14,941	3,261	14,629
New York	0	5,320	7	5,425	28	4,650	20	4,791	10	4,622	10	4,418	3	4,242
North Dakota	800	2,070	717	3,017	830	2,574	927	2,770	641	2,902	599	2,875	592	2,919
Ohio	470	24,282	523	25,764	535	26,343	556	27,419	386	29,551	387	29,626	389	29,745
Oklahoma	5,046	86,699	4,794	91,074	4,980	94,620	5,150	97,850	5,013	95,248	5,087	96,658	4,886	92,799
Pennsylvania	52	25,233	47	24,610	0	20,739	0	24,000	0	20,000	0	14,271	0	28,000
South Dakota	0	130	0	140	0	138	0	165	0	148	0	149	0	151
Tennessee	120	530	126	567	139	636	137	661	0	806	0	648	0	720
Texas	16,170	171,456	15,182	180,413	15,216	188,448	16,247	192,793	14,147	187,125	13,220	184,943	13,253	184,755
Utah	396	1,187	388	1,246	360	1,439	389	1,555	372	1,486	365	1,420	346	1,506
Virginia	0	(a)	0	(a)	(a)	(a)	(a)	(a)	0	32	0	29	1	28
Washington	0	(a)	0	(a)	(a)	(a)	(a)	(a)	0	0	0	0	0	0
West Virginia	0	14,900	0	15,300	0	15,475	0	15,895	0	15,750	0	15,850	0	15,950
Wyoming	825	10,967	794	10,555	809	10,752	831	11,207	784	11,095	788	10,165	805	11,045
Other	1	49	0	55	5	63	0	28	0	0	0	0		
U.S. Federal Waters	3,589	1,396	1,370	3,340	3,590	514	3,726	601	4,083	342	2,689	1,798	2,921	1,605
U.S. Total	36065	544077	32994	570296	36104	584093	37665	609070	35148	588256	32870	587311	32,500	594,696

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1989		1990	
	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	85	846	66	806
Alaska	698	639	767	699
Arizona	0	25	0	22
Arkansas	150	4,190	100	7,165
California	1,534	42,211	993	42,382
Colorado	541	5,821	666	5,930
Florida	59	42	41	42
Illinois	0	32,441	0	31,874
Indiana	0	7,543	0	7,506
Kansas	58	44,911	59	45,411
Kentucky	0	22,859	0	22,741
Louisiana	2,008	20,864	2,001	21,811
Michigan	1,338	4,219	605	3,965
Mississippi	363	3,226	221	1,948
Missouri	0	807	0	854
Montana	363	3,638	349	3,497
Nebraska	0	1,787	0	1,440
Nevada	10	36	8	38
New Mexico	3,170	14,617	3,110	15,436
New York	1	4,349	1	4,042
North Dakota	543	2,899	536	3,010
Ohio	400	29,794	375	29,714
Oklahoma	4,817	91,527	4,080	77,587
Pennsylvania	0	27,218	0	22,338
South Dakota	0	156	0	149
Tennessee	0	713	0	736
Texas	12,548	173,678	11,742	177,087
Utah	112	2,122	99	1,873
Virginia	0	20	0	25
Washington	0	0	0	0
West Virginia	0	15,940	0	15,950
Wyoming	863	10,676	850	10,547
Other				
U.S. Federal Waters	2,292	1,589	2,817	1,651
U.S. Total	31,953	571,403	29,486	558,276

(a) Included in other.

SOURCE: World Oil Magazine, February issue.

Section III
Table 20

United States Stripper Wells by State
(As of January 1)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Alabama	0	0	14	39	44	75	71	78	69	78	68	73	92	95	98	100	124	
Arizona	0	2	2	1	4	6	7	7	7	8	10	12	14	17	14	14	16	
Arkansas	5,997	5,961	6,203	6,201	6,094	6,100	6,025	6,736	6,822	6,767	6,820	5,847	5,167	7,218	4,738	4,942	4,416	
California	21,395	23,753	31,391	31,466	34,559	32,124	29,983	28,328	24,198	25,957	25,400	26,566	26,354	26,358	26,650	29,230	29,044	
Colorado	740	774	807	867	818	881	942	990	1,016	1,074	1,143	1,255	1,354	1,861	1,690	1,798	4,269	
Illinois	26,095	25,202	24,363	23,960	23,279	23,222	23,275	23,499	23,622	23,860	24,501	25,472	26,813	28,566	29,942	30,593	31,649	
Indiana	7,246	6,995	7,570	4,251	3,962	4,654	4,853	5,056	5,038	5,092	5,022	5,874	5,353	5,854	6,134	5,457	5,165	(a)
Kansas	40,513	39,552	39,853	40,176	40,105	40,597	41,764	42,273	43,154	44,686	41,876	42,924	44,521	47,592	45,749	48,235	50,182	
Kentucky	14,615	14,585	14,511	14,201	13,914	13,690	13,817	14,046	13,953	14,028	14,075	14,130	14,275	17,000	16,433	17,674	17,992	
Louisiana	12,561	12,318	12,907	12,649	12,808	12,723	13,185	13,189	13,600	12,131	15,889	15,950	12,010	16,500	16,500	16,000	15,500	
Michigan	3,555	3,392	3,389	3,356	3,370	3,330	3,260	3,276	3,331	3,405	3,325	3,057	3,361	3,367	3,500	3,475	3,285	(a)
Mississippi	344	313	211	217	278	310	617	654	657	813	1,523	2,138	1,923	837	837	811	681	(a)
Missouri	126	139	137	137	157	163	173	161	144	157	301	440	530	548	548	429	388	
Montana	1,951	1,311	1,186	1,295	1,338	1,873	1,918	1,945	1,983	1,996	2,082	2,058	2,243	2,673	3,085	3,376	3,493	
Nebraska	437	484	417	526	577	638	812	919	987	1,037	1,223	1,414	1,585	1,672	1,707	1,716	1,637	
New Mexico	9,058	9,143	9,122	9,458	9,991	10,274	10,544	10,956	11,401	11,829	12,519	13,226	13,882	14,280	14,749	15,199	14,466	
New York	5,861	5,522	5,528	5,282	4,828	5,231	4,916	4,913	4,700	5,000	5,220	5,345	5,259	4,228	4,532	4,448	4,309	
North Dakota	679	721	749	635	529	569	655	687	741	782	878	836	959	922	1,016	1,091	1,106	
Ohio	14,447	14,653	14,863	14,906	15,406	15,482	15,586	16,122	17,006	18,222	19,650	21,982	22,966	24,263	25,129	26,412	28,652	
Oklahoma	55,718	54,712	54,788	57,000	59,817	58,736	53,357	56,239	59,971	64,893	66,128	69,781	73,328	77,729	82,431	83,034	84,425	
Pennsylvania	36,801	34,029	32,596	31,539	32,095	31,661	31,274	28,400	27,768	27,925	25,991	25,285	23,438	21,831	19,540	11,877	14,271	
South Dakota	0	11	12	12	8	9	10	16	11	10	12	23	33	33	30	24	17	
Tennessee	44	46	41	53	99	133	159	213	265	318	387	398	NA	716	689	952	848	
Texas	85,117	84,950	83,666	82,302	87,412	89,027	91,498	92,887	96,713	98,487	103,594	107,596	111,671	117,178	126,202	130,311	123,796	
Utah	37	44	53	84	74	48	77	74	95	106	125	196	NA	217	348	519	853	
Virginia	3	3	1	0	3	7	7	4	5	7	8	12	20	26	32	30	49	
West Virginia	13,150	13,270	13,375	13,500	13,600	13,680	13,800	13,875	13,925	14,000	14,150	14,300	14,550	14,900	15,200	15,500	15,800	
Wyoming	2,640	1,811	1,716	1,116	926	2,629	3,148	3,387	3,453	3,642	3,252	3,349	4,792	5,020	5,020	5,200	3,996	
Total	359,130	353,696	359,471	355,229	366,095	367,872	365,733	368,930	374,635	386,310	395,172	409,539	416,493	441,501	452,543	458,447	460,429	

See notes and sources at end of table

Section III
Table 20a

United States Stripper Wells by State
(As of January 1)

State	1988	1989	1990	1991
Alabama	122	148	498	514
Arizona	15	13	13	12
Arkansas	4,438	7,597	7,428	7,290
California	26,988	26,527	25,828	26,128
Colorado	5,097	5,069	6,357	5,234
Illinois	31,883	32,358	34,417	33,700
Indiana	4,985 (a)	6,171	6,281	5,764
Kansas	51,953	46,720	45,559	45,227
Kentucky	18,073	18,306	19,358	19,330
Louisiana	15,000	16,500	14,788	17,695
Michigan	3,015 (a)	3,040	3,110 (a)	3,967 (a)
Mississippi	644	606	561	615
Missouri	289	700	668	375
Montana	3,300	3,267	3,116	3,084
Nebraska	1,589	1,505	1,247	1,269
New Mexico	14,622	14,723	15,050	15,261
New York	4,221	4,011	3,968	3,748
North Dakota	1,125	1,186	1,180	1,205
Ohio	28,908	29,251	29,634	29,576
Oklahoma	77,154	74,598	70,741	73,345
Pennsylvania	13,255	17,303	22,338	21,800
South Dakota	27	17	24	26
Tennessee	853	934	839	923
Texas	123,945	123,802	119,693	127,790
Utah	824	796	897	1,026
Virginia	51	53	44	22
West Virginia	15,925	15,790	15,970	15,975
Wyoming	3,486	3,159	2,982	2,953
Total	451,787	454,150	452,589	463,854

(a) Estimate.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association, National Stripper Well Survey

United States Stripper Well Abandonments by State
(As of January 1)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Alabama	0	0	0	19	1	1	8	2	9	3	14	2	4	1	3	1	2	
Arizona	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
Arkansas	76	76	55	73	99	26	19	17	42	8	3	5	91	39	62	85	110	
California	746	1,197	727	1,042	614	695	563	782	881	824	781	1,146	886	578	1,126	1,182	614	
Colorado	103	105	141	84	99	75	94	57	42	40	31	37	N.A.	N.A.	36	94	98	
Illinois	903	1,096	1,006	644	1,037	766	574	420	400	354	352	303	262	145	629	390	343	
Indiana	118	96	108	127	100	154	97	97	44	72	262	201	425	428	366	387	397	(a)
Kansas	1,595	2,433	1,356	1,173	1,900	1,195	753	605	559	541	481	657	1,363	1,583	1,505	1,693	1,584	
Kentucky	367	345	366	397	523	534	306	220	252	198	77	86	256	397	393	391	516	
Louisiana	385	506	630	562	349	302	310	226	182	134	59	166	160	637	852	1,213	1,326	(a)
Michigan	91	127	95	102	71	51	31	34	47	42	33	61	N.A.	99	107	115	127	(a)
Mississippi	24	34	25	16	22	15	21	29	173	113	58	60	82	86	96	98	103	(a)
Missouri	31	0	0	0	0	13	0	12	17	0	0	3	61	0	N.A.	0	34	
Montana	889	200	119	29	11	11	7	7	12	29	28	17	55	N.A.	430	450	75	
Nebraska	47	50	50	72	74	9	10	14	59	17	18	11	15	18	36	36	45	
New Mexico	856	770	749	691	536	499	443	417	432	448	420	435	621	628	644	721	1,761	
New York	629	419	573	544	622	553	442	455	352	117	119	161	249	70	140	226	449	(a)
North Dakota	3	13	78	5	2	4	4	3	6	5	4	4	15	24	12	78	50	
Ohio	650	460	369	440	611	446	310	202	171	229	176	164	226	297	354	612	291	
Oklahoma	2,705	2,273	1,604	1,737	1,869	1,739	881	793	656	623	596	644	835	1,093	1,491	1,156	1,442	
Pennsylvania	1,376	3,824	1,632	1,951	346	434	1,421	1,034	899	1,229	809	733	863	880	848	930	955	(a)
South Dakota	--	0	0	0	4	1	0	1	2	6	3	2	3	4	4	0	4	
Tennessee	0	0	12	7	6	9	6	5	13	6	7	11	N.A.	N.A.	0	N.A.	N.A.	
Texas	3,860	4,265	3,682	3,884	4,608	5,716	3,177	3,057	2,599	2,268	1,938	1,948	2,920	3,980	4,931	6,015	7,585	
Utah	3	6	6	25	26	39	47	56	54	62	10	12	N.A.	24	22	75	89	(a)
Virginia	2	0	0	1	1	0	0	1	0	1	1	0	0	0	3	2	5	(a)
West Virginia	92	80	38	26	124	114	53	13	10	10	10	14	34	20	79	74	24	
Wyoming	80	46	62	105	124	77	339	441	467	289	323	331	N.A.	N.A.	N.A.	N.A.	1,204	
U.S. TOTAL	15,631	18,421	13,483	13,756	13,779	13,478	9,916	9,000	8,380	7,668	6,614	7,215	9,426	11,032	14,170	16,024	19,233	

See notes and sources at end of table

United States Stripper Well Abandonments by State
(As of January 1)

State	1988	1989	1990	1991
Alabama	7	6	8	13
Arizona	0	0	0	1
Arkansas	106	138	169	140
California	875	1,041	1,464	2,563
Colorado	224	218	427	228
Illinois	533	183	295	1,004
Indiana	411 (a)	446	245	318
Kansas	1,521	1,883	1,470	1,704
Kentucky	772	487	443	264
Louisiana	1,267 (a)	1,116	428	411
Michigan	170 (a)	157 (a)	138 (a)	146 (a)
Mississippi	137 (a)	118	120	139
Missouri	51 (a)	46 (a)	41 (a)	42
Montana	140	182	126	98
Nebraska	39	30	43	60
New Mexico	1,000	1,087	882	861
New York	354	290	201	554
North Dakota	55	55	91	47
Ohio	343	442	347	354
Oklahoma	1,779	2,098	2,138	2,008
Pennsylvania	996 (a)	943	1,138	967
South Dakota	1	1	1	0
Tennessee	110	105 (a)	95 (a)	101 (a)
Texas	6,708	5,924	5,422	4,959
Utah	93 (a)	48	73	16
Virginia	1	2	5	0
West Virginia	38	50	34	26
Wyoming	510	327	263	211
U.S. TOTAL	18,241	17,423	16,107	17,235

N.A. = Not Available
(a) Estimate.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association. National Stripper Well Survey

Section III
Table 22

Producing Oil Wells Worldwide
(As of December 31)(a)

COUNTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	386	402	398	394	373	361	378	359	375	370	403	399	435	509	545	746	879
Brunei-Malaysia	592	537	558	126	519	504	574	648	712	819	808	788	843	965	1,017	999	1,080
China	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
India	200	1,545	1,545	1,500	2,500	1,545	1,548	1,600	1,600	1,600	1,600	1,600	1,560	1,560	1,560	2,201	2,201
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018	3,162	3,421	3,644	3,823	3,700	4,077	4,341	4,840	4,840	5,378	5,124
Japan	1,725	2,341	1,078	1,084	1,044	1,009	464	448	542	507	388	382	397	370	348	256	284
TOTAL ASIA-PACIFIC(c)	5,200	7,046	6,692	6,479	6,861	7,156	6,645	7,006	7,407	7,684	7,465	7,843	8,184	8,885	8,992	10,381	10,374
Austria	1,268	1,298	1,270	1,250	1,271	1,291	1,222	1,219	1,250	1,254	1,120	1,164	1,229	1,240	1,243	1,605	1,069
Netherlands	369	351	319	319	347	368	392	393	416	473	480	516	533	623	633	644	663
Norway	0	1	4	4	6	24	29	36	50	50	100	117	131	144	171	178	178
United Kingdom	60	55	56	63	57	77	90	135	109	240	290	361	379	387	535	627	661
West Germany	3,065	3,078	2,833	2,782	2,699	2,699	2,827	2,933	2,933	2,945	2,957	3,004	3,077	3,142	3,136	3,152	3,129
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981	6,109	6,266	5,208	5,421	5,401	5,708	5,978	6,228	6,922	7,509	7,643
USSR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL E. EUROPE/USSR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abu Dhabi	94	98	115	142	160	216	209	232	240	250	341	277	352	222	254	254	392
Iran	266	280	313	350	369	425	428	518	551	547	547	530	530	530	530	361	361
Iraq	113	122	132	133	156	156	170	200	250	250	250	280	280	290	290	NA	NA
Kuwait	741	692	692	692	692	692	596	586	586	590	590	546	530	530	530	572	363
Neutral Zone	450	480	440	362	449	449	476	459	455	423	412	450	445	450	464	493	493
Qatar	69	80	84	92	81	88	77	77	95	95	124	128	125	125	174	174	174
Saudi Arabia	423	425	535	627	670	711	701	754	875	725	733	782	555	555	555	NA	NA
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919	3,007	4,161	4,307	4,381	4,193	4,304	4,639	4,643	4,582	3,797	3,875
Algeria	775	497	524	574	826	984	826	801	989	970	1,000	1,050	1,085	1,090	1,090	NA	NA
Egypt	332	204	245	261	437	319	376	401	430	432	484	450	411	500	617	658	666
Gabon	100	101	114	122	137	184	212	240	211	218	242	250	266	270	270	297	500
Libya	1,083	995	763	895	979	851	877	797	817	896	886	889	891	905	905	671	661
Nigeria	364	570	774	898	1,088	1,052	1,259	1,374	1,322	1,457	1,451	1,491	1,312	1,296	1,177	1,153	1,111
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699	3,804	3,956	4,160	4,372	4,522	4,672	4,565	4,860	4,937	3,708	3,838
Mexico	3,127	3,908	3,412	4,345	3,301	3,285	3,382	3,419	4,145	4,200	3,384	3,593	3,605	3,640	NA	3,209	3,737
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718	10,720	1,932	11,909	12,486	5,042	13,610	14,029	11,604	13,512	10,103	10,103
United States	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752	531,395	547,717	557,009	580,142	636,900	615,500	642,000	639,735
Canada	23,675	22,779	20,911	22,996	21,202	18,573	25,055	26,112	25,800	18,323	20,721	33,404	33,907	36,388	39,146	43,480	50,037
TOTAL WESTERN HEMIS.	582,649	569,172	558,947	551,543	548,894	546,866	574,224	555,034	575,695	583,748	594,741	625,056	650,162	708,342	690,169	721,857	727,218
TOTAL WORLD(b)	598,852	586,949	576,226	570,094	568,806	567,621	593,789	576,423	596,777	605,606	616,322	647,583	673,528	732,958	715,602	747,252	752,948

See notes and sources at end of table

Section III
Table 22a

Producing Oil Wells Worldwide
(As of December 31)(a)

COUNTRY	1987	1988	1989
Australia	926	951	1,024
Brunei-Malaysia	1,056	1,050	1,064
China	NA	NA	43,700
India	2,670	1,866	1,944
Indonesia	6,065	6,470	6,963
Japan	387	387	368
TOTAL ASIA-PACIFIC(c)	12,018	11,654	56,059
Austria	1,198	987	1,070
Netherlands	478	289	188
Norway	215	223	318
United Kingdom	787	755	762
West Germany	3,088	2,917	2,883
TOTAL WESTERN EUROPE	7,199	6,717	6,856
USSR	NA	NA	145,000
Yugoslavia	NA	NA	1,671
TOTAL E. EUROPE/USSR	NA	NA	146,671
Abu Dhabi	1,001	1,001	1,001
Iran	361	361	361
Iraq	868	820	820
Kuwait	363	363	363
Neutral Zone	492	501	500
Qatar	174	174	174
Saudi Arabia	588	588	858
TOTAL MIDDLE EAST	6,289	6,382	6,827
Algeria	840	840	840
Egypt	821	874	896
Gabon	299	312	310
Libya	664	678	696
Nigeria	1,522	1,513	1,432
TOTAL AFRICA	5,296	5,411	5,381
Mexico	3,768	3,768	4,740
Venezuela	28,101	12,857	12,752
United States	613,430	612,448	603,365
Canada	37,882	38,557	38,794
TOTAL WESTERN HEMIS.	708,710	694,196	688,420
TOTAL WORLD(b)	739,512	724,360	910,214

(a) Figures as of July 1 for 1970 through 1986
(b) Total is incomplete because figures for all countries are not available.
NA Not Available

SOURCE: United States: 1970-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1982: World Oil Magazine
1983-1989: Oil and Gas Journal, "Worldwide Report" Issue
Rest of World: 1970-1989: Oil and Gas Journal, "Worldwide Report" Issue.

Historical Number of Wells Drilled in the United States by Type: 1859-1946

Year	Oil	Gas	Dry	Service	Total	Producing Oil Wells at Year-End
1859	1	0	1	0	2	1
1860	201	0	39	0	240	202
1861	190	0	57	0	247	392
1862	322	0	63	0	385	713
1863	488	0	107	0	595	987
1864	951	0	181	0	1,132	1,303
1865	899	0	378	0	1,277	1,611
1866	795	0	347	0	1,142	1,885
1867	789	0	467	0	1,256	2,360
1868	862	0	202	0	1,064	2,946
1869	986	0	696	0	1,682	3,737
1870	1,002	0	637	0	1,639	4,363
1871	1,005	0	447	0	1,452	4,987
1872	768	0	398	0	1,166	5,271
1873	948	0	296	0	1,244	5,607
1874	1,002	0	302	0	1,304	5,958
1875	1,890	0	568	0	2,458	6,973
1876	2,631	0	329	0	2,960	8,960
1877	3,298	0	658	0	3,956	11,551
1878	2,660	0	328	0	2,988	13,536
1879	2,669	0	148	0	2,817	15,521
1880	4,072	0	144	0	4,216	18,634
1881	3,694	0	182	0	3,876	21,168
1882	3,092	0	179	0	3,271	22,258
1883	2,655	84	279	0	3,018	22,365
1884	2,094	1	270	0	2,365	21,083
1885	2,572	4	379	0	2,955	20,753
1886	3,340	0	968	0	4,308	20,963
1887	1,637	0	505	0	2,142	19,425
1888	1,750	45	491	0	2,286	18,453
1889	5,445	133	1,119	0	6,697	21,833
1890	7,342	50	1,439	0	8,831	27,341
1891	4,168	49	990	0	5,207	29,480
1892	3,090	3	785	0	3,878	31,059
1893	3,474	3	799	0	4,276	32,339
1894	6,138	18	1,493	0	7,649	36,841
1895	10,838	8	2,404	0	13,250	45,784
1896	11,219	14	2,784	0	14,017	54,319
1897	7,571	7	2,237	0	9,815	57,591
1898	7,058	16	1,823	0	8,897	61,288
1899	11,630	22	2,701	0	14,353	69,673
1900	13,671	17	3,389	0	17,077	78,745
1901	11,811	10	3,276	0	15,097	85,111
1902	13,019	15	3,440	0	16,474	92,371
1903	15,177	322	3,670	0	19,169	101,182
1904	16,008	449	4,088	0	20,545	110,928
1905	12,601	382	3,583	0	16,566	115,943
1906	14,550	493	3,787	0	18,830	122,590
1907	15,534	555	3,579	0	19,668	133,040
1908	13,210	485	3,214	0	16,909	141,453
1909	13,875	1,048	3,404	0	18,327	146,736

See notes and sources at end of table

Section III
Table 23a

Historical Number of Wells Drilled in the United States by Type: 1859-1946

Year	Oil	Gas	Dry	Service		Total	Producing Oil Wells at Year-End
1910	11,018	1,500	2,422	0		14,940	148,619
1911	9,825	1,580	2,363	0		13,768	150,793
1912	12,514	1,811	2,855	0		17,180	155,046
1913	19,101	2,207	4,282	0		25,590	170,774
1914	16,668	2,327	4,142	0		23,137	180,177
1915	9,154	2,022	2,981	0		14,157	181,317
1916	18,777	1,803	4,039	0		24,619	192,108
1917	16,590	1,966	4,851	0		23,407	199,319
1918	17,845	2,229	5,613	0		25,687	207,815
1919	21,052	2,135	5,986	0		29,173	228,084
1920	24,273	2,274	7,364	0		33,911	268,247
1921	14,666	2,111	5,160	0		21,937	274,500
1922	17,333	2,024	5,332	0		24,689	284,880
1923	16,206	2,367	5,865	0		24,438	290,100
1924	14,587	2,257	5,044	0		21,888	299,100
1925	16,559	2,330	6,734	0		25,623	306,100
1926	19,013	2,341	7,965	0		29,319	318,600
1927	14,442	2,491	7,210	0		24,143	323,300
1928	12,526	2,727	7,078	0		22,331	327,800
1929	15,572	2,870	7,914	0		26,356	328,200
1930	11,640	2,866	6,734	0		21,240	331,070
1931	6,788	1,985	3,659	0		12,432	315,850
1932	10,444	1,027	3,569	0		15,040	321,500
1933	8,068	932	3,312	0		12,312	326,850
1934	12,520	1,368	4,309	0		18,197	333,070
1935	14,663	1,401	4,911	445	(a)	21,420	340,990
1936	17,800	2,070	5,297	723		25,890	349,450
1937	22,386	2,676	6,560	1,453		33,075	363,030
1938	18,598	2,066	6,141	688		27,493	369,640
1939	17,625	2,198	6,474	1,420		27,717	380,390
1940	19,125	2,352	6,617	1,947		30,041	389,010
1941	19,552	3,007	7,128	2,366		32,053	399,960
1942	10,492	2,068	5,504	1,760		19,824	404,840
1943	9,717	1,782	6,385	1,547		19,431	407,170
1944	13,028	3,067	7,009	2,156		25,260	412,220
1945	14,297	2,898	7,471	2,209		26,875	415,750
1946	15,851	3,090	8,047	2,237		29,225	421,460

SOURCE: Wells drilled--Oil and Gas Journal, "Forecast-Review" issues.
Producing wells--Department of Interior, Bureau of Mines, Mineral Industry Surveys.

(a) Not available prior to 1935.

BASIC PETROLEUM DATA BOOK

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Section IV
Table 1

World Crude Oil Production by Area
(Thousands of barrels)

Year	United States(a)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	NA	3,022,139
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	NA	3,433,234
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	NA	3,404,142
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	NA	3,803,027
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	NA	4,282,730
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	NA	4,531,114
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	NA	4,798,055
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	NA	5,016,591
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	NA	5,625,659
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	NA	6,124,676
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,1[illegible]	166,631	5,617,319	821,125	NA	6,438,444
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,7[illegible]	169,824	5,676,265	931,485	NA	6,607,750
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,[illegible]	193,308	6,074,425	1,058,813	NA	7,133,238
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	NA	7,674,460
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	NA	8,186,213
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	NA	8,881,858
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	NA	9,538,346
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	NA	10,309,644
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	NA	11,062,515
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	NA	12,021,786
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	NA	12,914,340
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	NA	14,146,318
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	NA	15,222,511
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	NA	16,718,708
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	NA	17,662,793
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	NA	18,600,745
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	NA	20,367,981
1974	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	NA	20,537,727
1975	3,052,048	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,169,574	4,328,030	NA	19,497,604
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	NA	21,191,540
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	NA	21,900,695
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	NA	22,158,251
1979	3,121,310	546,040	1,919,535	828,550	7,868,670	2,423,600	1,051,200	17,758,905	5,118,030	NA	22,876,935
1980	3,146,365	521,184	2,035,692	890,965	6,735,498	2,226,378	1,000,278	16,556,360	5,204,520	NA	21,760,880
1981	3,128,624	469,025	2,182,700	955,570	5,749,480	1,672,065	1,027,110	15,184,574	5,192,125	NA	20,376,699
1982	3,156,715	463,550	2,256,065	1,078,210	4,622,360	1,629,725	955,570	14,162,195	5,212,930	NA	19,375,125
1983	3,170,999	494,940	2,203,505	1,236,620	4,215,750	1,609,650	1,024,555	13,956,019	5,254,905	NA	19,210,924
1984	3,249,696	516,426	2,315,682	1,331,874	4,128,114	1,713,978	1,164,978	14,420,748	5,332,620	NA	19,753,368
1985	3,274,553	531,805	2,284,900	1,369,480	3,761,325	1,772,075	1,142,450	14,136,588	5,352,360	NA	19,488,948
1986	3,168,252	537,280	2,190,000	1,395,030	4,639,150	1,819,890	1,176,760	14,926,362	5,402,730	NA	20,329,092
1987	3,047,378	569,400	2,200,220	1,377,875	4,610,315	1,727,910	1,141,720	14,674,818	5,494,345	NA	20,169,163
1988	2,979,123	588,894	2,303,238	1,388,970	5,297,118	1,828,536	1,148,142	15,534,021	5,511,228	NA	21,045,249
1989	2,778,773	567,575	2,335,635	1,314,000	5,846,205	1,974,285	1,186,615	16,003,088	5,380,830	NA	21,383,918

See notes and sources at end of table

World Crude Oil Production by Area
(Thousands of barrels)

Year	United States(a)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1990	2,684,687	565,020	2,487,110	1,399,410	5,992,205	2,176,495	2,258,985	17,563,912	NA	4,150,780	21,714,692

(a) Includes lease condensate
(b) Due to the political changes in the USSR and Eastern Europe the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1947-1958: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, Annual
1959-1972: International Petroleum Annual
1973-1978: U.S. Energy Information Administration, World Crude Oil Production Annual
1979-1990: U.S.--U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annual
Rest of World--Central Intelligence Agency, International Energy Statistical Review

Section IV
Table 2

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1974	Nation	1975	Nation	1976	Nation	1977
1. U.S.S.R.(a)	3,373,650	1. U.S.S.R.(a)	3,608,850	1. U.S.S.R.(a)	3,822,000	1. U.S.S.R.(a)	3,991,050
2. United States(a)	3,202,585	2. United States(a)	3,052,048	2. Saudi Arabia(b)	3,053,887	2. Saudi Arabia(b)	3,290,000
3. Saudi Arabia(b)	2,996,543	3. Saudi Arabia(b)	2,491,834	3. United States(a)	2,976,180	3. United States(a)	3,009,265
4. Iran	2,197,901	4. Iran	1,952,650	4. Iran	2,168,237	4. Iran	2,080,051
5. Venezuela	1,086,332	5. Venezuela	856,364	5. Venezuela	839,737	5. Iraq	909,945
6. Kuwait(b)	830,580	6. Iraq	825,521	6. Iraq	834,810	6. Venezuela	816,818
7. Nigeria	823,347	7. Kuwait(b)	670,918	7. Nigeria	756,064	7. Nigeria	765,473
8. Iraq	720,729	8. Nigeria	651,890	8. Libya	704,011	8. Libya	753,178
9. Canada	616,532	9. United Arab Emirates	618,310	9. Kuwait(b)	700,000	9. United Arab Emirates	729,506
10. United Arab Emirates	616,485	10. China	571.590	10. United Arab Emirates	692,106	10. China	653,350
11. Libya	555,291	11. Libya	551,150	11. China	645,897	11. Kuwait(b)	650,795
12. Indonesia	501,838	12. Canada	520,666	12. Indonesia	550,319	12. Indonesia	615,123
13. China	474,500	13. Indonesia	477,055	13. Canada	488,680	13. Canada	482,021
14. Algeria	368,139	14. Algeria	350,753	14. Algeria	383,816	14. Algeria	409,864
15. Mexico(a)	238,271	15. Mexico	294,254	15. Mexico	327,285	15. Mexico	358,090
16. Qatar	189,348	16. Qatar	159,482	16. Qatar	178,120	16. United Kingdom	271,653
17. Argentina	151,110	17. Australia	149,873	17. Australia	152,522	17. Qatar	162,316
18. Australia	140,396	18. Argentina	144,364	18. Argentina	145,561	18. Argentina	157,248
19. Romania	107,964	19. Oman	124,600	19. Oman	133,795	19. Australia	157,155
20. Oman	106,046	20. Romania	108,739	20. Egypt	120,180	20. Egypt	150,925
TOTAL WORLD	20,537,727	TOTAL WORLD	19,502,335	TOTAL WORLD	21,191,540	TOTAL WORLD	21,900,695

See notes and sources at end of table

Section IV
Table 2a

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1978	Nation	1979	Nation	1980	Nation	1981
1. U.S.S.R.	4,093,475	1. U.S.S.R.	4,187,280	1. U.S.S.R.	4,282,200	1. U.S.S.R.	4,303,350
2. United States(a)	3,175,927	2. Saudi Arabia(b)	3,376,615	2. Saudi Arabia(b)	3,524,946	2. Saudi Arabia(b)	3,513,125
3. Saudi Arabia(b)	3,113,470	3. United States(a)	3,121,310	3. United States(a)	3,146,365	3. United States(a)	3,128,624
4. Iran	1.900,555	4. Iraq	1,269,105	4. Iraq	920,124	4. Mexico(a)	843,880
5. Iraq	959,585	5. Iran	1,156,320	5. Venezuela	792,390	5. Venezuela	769,420
6. Venezuela	790,418	6. Venezuela	859,940	6. China	775,188	6. China	738,760
7. China	731,825	7. Nigeria	840,230	7. Nigeria	753,228	7. United Kingdom	661,015
8. Libya	727,445	8. Kuwait(b)	807,745	8. Mexico(a)	708,942	8. Indonesia	585,640
9. Nigeria	697,150	9. China	774,530	9. Libya	669,780	9. United Arab Emirates	547,500
10. Kuwait(b)	680,725	10. Libya	763,580	10. United Arab Emirates	622,932	10. Nigeria	527,425
11. United Arab Emirates	668,680	11. United Arab Emirates	668,315	11. Iran	680,292	11. Iran	504,065
12. Indonesia	597,505	12. Indonesia	580,715	12. United Kingdom	592,554	12. Canada(a)	469,025
13. Canada(a)	483,260	13. United Kingdom	572,320	13. Indonesia	576,816	13. Libya	415,005
14. Algeria(a)	447,125	14. Canada(a)	546,040	14. Canada(a)	521,184	14. Iraq	362,445
15. Mexico(a)	440,555	15. Mexico(a)	533,265	15. Kuwait(b)	508,374	15. Kuwait(b)	345,655
16. United Kingdom	394,930	16. Algeria(a)	415,005	16. Algeria(a)	373,320	16. Algeria	293,095
17. Qatar	176,537	17. Neutral Zone	207,320	17. Egypt	217,770	17. Egypt	218,270
18. Neutral Zone	170,090	18. Egypt	191,625	18. Neutral Zone	199,104	18. Norway	182,865
19. Egypt	169,360	19. Brunei-Malaysia	187,975	19. Norway	193,248	19. Argentina	181,040
20. Argentina	165,195	20. Qatar	185,420	20. Brunei-Malaysia	189,588	20. Brunei-Malaysia	156,585
TOTAL WORLD	22,158,251	TOTAL WORLD	22,876,935	TOTAL WORLD	21,760,880	TOTAL WORLD	20,376,699

See notes and sources at end of table

Section IV
Table 2b

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1982	Nation	1983	Nation	1984	Nation	1985
1. U.S.S.R.	4,317,950	1. U.S.S.R.	4,330,360	1. U.S.S.R.	4,344,420	1. U.S.S.R.	4,288,385
2. United States(a)	3,156,715	2. United States(a)	3,170,999	2. United States(a)	3,249,696	2. United States(a)	3,274,553
3. Saudi Arabia(b)	2,309,355	3. Saudi Arabia (b)	1,776,455	3. Saudi Arabia(b)	1,626,504	3. Saudi Arabia(b)	1,200,850
4. Mexico	1,002,290	4. Mexico	973,090	4. Mexico	1,005,036	4. Mexico	997,545
5. Iran	832,930	5. Iran	909,580	5. United Kingdom	927,810	5. United Kingdom	924,545
6. United Kingdom	764,310	6. United Kingdom	839,135	6. China	834,480	6. China	911,040
7. China	745,330	7. China	774,165	7. Iran	800,442	7. Iran	824,170
8. Venezuela	690,945	8. Venezuela	650,065	8. Venezuela	663,558	8. Venezuela	591,665
9. Indonesia	483,260	9. Indonesia	505,525	9. Indonesia	536,556	9. Nigeria	534,360
10. Nigeria	473,770	10. Canada	494,940	10. Canada	516,426	10. Canada	531,805
11. Canada	463,550	11. Nigeria	452,965	11. Nigeria	509,838	11. Iraq	524,505
12. United Arab Emirates	455,520	12. United Arab Emirates	408,435	12. Iraq	440,298	12. Indonesia	450,775
13. Libya	431,795	13. Libya	392,740	13. United Arab Emirates	401,502	13. United Arab Emirates	418,290
14. Iraq	354,780	14. Iraq	336,530	14. Libya	392,718	14. Libya	390,185
15. Algeria	255,865	15. Kuwait(b)	321,565	15. Kuwait(b)	333,792	15. Egypt	319,010
16. Kuwait(b)	241,995	16. Algeria	255,135	16. Egypt	302,682	16. Kuwait(b)	314,630
17. Egypt	242,725	17. Egypt	251,485	17. Norway	256,200	17. Norway	286,525
18. Norway	189,070	18. Norway	224,110	18. Algeria	233,508	18. Algeria	235,425
19. Argentina	176,660	19. Brunei-Malaysia	190,895	19. India	173,248	19. India	224,475
20. Brunei-Malaysia	167,535	20. Argentina	174,835	20. Australia	180,072	20. Brazil	211,700
TOTAL WORLD	19,375,125	TOTAL WORLD	19,210,924	TOTAL WORLD	19,753,368	TOTAL WORLD	19,488,948

See notes and sources at end of table

Section IV
Table 2c

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1986	Nation	1987	Nation	1988	Nation	1989
1. U.S.S.R.	4,290,210	1. U.S.S.R.	4,354,450	1. U.S.S.R.	4,357,230	1. U.S.S.R.	4,227,065
2. United States(a)	3,168,252	2. United States(a)	3,047,378	2. United States(a)	2,979,123	2. United States(a)	2,778,773
3. Saudi Arabia(b)	1,795,070	3. Saudi Arabia(b)	1,484,455	3. Saudi Arabia(b)	1,876,848	3. Saudi Arabia(b)	1,789,960
4. China	953,745	4. China	978,930	4. China	1,003,572	4. Iran	1,043,170
5. United Kingdom	915,420	5. Mexico	927,465	5. Mexico	953,796	5. Iraq	1,025,285
6. Mexico	887,315	6. Iran	894,615	6. Iraq	951,234	6. China	1,009,225
7. Iran	710,290	7. United Kingdom	853,370	7. Iran	835,944	7. Mexico	953,745
8. Iraq	626,340	8. Iraq	757,740	8. United Kingdom	789,462	8. United Arab Emirates	686,930
9. Venezuela	575,240	9. Venezuela	573,780	9. Venezuela	607,926	9. Venezuela	625,245
10. Canada	537,280	10. Canada	569,400	10. Canada	588,894	10. United Kingdom	598,600
11. Nigeria	533,265	11. United Arab Emirates	530,710	11. United Arab Emirates	551,196	11. Nigeria	598,235
12. Kuwait(b)	490,560	12. Nigeria	469,390	12. Nigeria	504,714	12. Kuwait(b)	584,730
13. United Arab Emirates	485,815	13. Indonesia	434,715	13. Kuwait(b)	459,330	13. Canada	567,575
14. Indonesia	461,360	14. Kuwait(b)	377,410	14. Indonesia	424,194	14. Norway	528,155
15. Libya	415,005	15. Norway	344,195	15. Norway	404,430	15. Indonesia	444,205
16. Norway	306,965	16. Egypt	327,040	16. Libya	385,764	16. Libya	400,040
17. Egypt	296,745	17. Algeria	231,775	17. Egypt	310,368	17. Egypt	310,980
18. Algeria	244,915	18. India	222,285	18. India	232,410	18. Algeria	253,675
19. India	228,125	19. Brazil	206,590	19. Algeria	231,678	19. India	246,740
20. Brazil	209,875	20. Oman	203,305	20. Oman	221,430	20. Oman	223,745
TOTAL WORLD	20,329,092	TOTAL WORLD	20,169,163	TOTAL WORLD	21,045,249	TOTAL WORLD	21,383,918

See notes and sources at end of table

Section IV
Table 2d

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1990
1. U.S.S.R.	4,015,000
2. United States(a)	2,684,687
3. Saudi Arabia(b)	2,294,755
4. Iran	1,122,740
5. China	1,010,685
6. Mexico	930,020
7. Venezuela	767,595
8. United Arab Emirates	752,630
9. Iraq	711,020
10. Nigeria	649,335
11. United Kingdom	617,580
12. Norway	584,730
13. Canada	565,020
14. Libya	492,750
15. Indonesia	455,885
16. Kuwait(b)	391,645
17. Egypt	319,375
18. Algeria	279,225
19. India	243,090
20. Oman	242,360
TOTAL WORLD	21,714,692

(a) Includes lease condensate.
(b) Excluding Neutral Zone production.

SOURCE: 1974-1978: U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-1990: U.S.: Energy Information Administration, Petroleum Supply Annual.
Rest of World: Central Intelligence Agency, International Energy Statistical Review

United States Stripper Wells and Stripper Well Production

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(a) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	392,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.2
1965	398,299	589,016	4.1	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.3	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392,191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7
1981	409,539	426,502	2.9	3,128,624	13.6
1982	416,493	441,951	2.9	3,156,715	14.0
1983	441,501	462,013	2.9	3,159,440	14.6
1984	452,543	463,459	2.8	3,249,696	14.3
1985	458,447	455,884	2.7	3,274,553	13.9
1986	460,426	449,446	2.7	3,168,252	14.2
1987	451,787	446,837	2.7	3,047,378	14.7
1988	454,150	442,800	2.7	2,979,123	14.9

See notes and sources at end of table

Section IV
Table 3a

United States Stripper Wells and Stripper Well Production

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(a) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1989	452,589	386,916	2.3	2,778,773	13.9
1990	463,854	383,197	2.3	2,684,687	14.3

(a) Includes lease condensate.

SOURCE: Stripper Well data from National Stripper Well Association, National Stripper Well Survey.
Total U.S. Crude Oil Production from Energy Information Administration Petroleum Supply Annual

Section IV
Table 4

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	187
Arizona	-	-	-	-	-	-	-	-	-	-	-	12	25
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,083	80,275	76,727
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554
Kansas	105,132	110,908	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620
Missouri	55	31	49	32	24	21	39	96	72	65	65	84	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881
Nevada	-	-	-	-	-	-	-	33	64	64	44	40	32
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,893	94,759	98,515	105,692
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970
North Dakota	-	-	-	-	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,880	4,353	4,785	5,478	6,260	5,978
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,851	202,817	215,862	214,661	200,699	198,090
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,170
South Dakota	-	-	-	-	-	-	-	37	30	32	54	58	151
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978
Utah	-	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6
Washington	-	-	-	-	-	-	-	-	-	-	5	4	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184
Wyoming	44,772	55,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050
Total(Mb)	1,857.0	2,020.2	1,841.9	1,973.6	2,247.7	2,289.8	2,357.1	2,315.0	2,484.4	2,617.3	2,616.9	2,449.0	2,574.6
Daily Ave(Mb)	5.1	5.5	5.0	5.4	6.2	6.3	6.5	6.3	6.8	7.2	7.2	6.7	7.1

See notes and sources at end of table

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	7,329	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934
Alaska	559	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893
Arizona	73	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993
Arkansas	30,117	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519
California	305,352	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022
Colorado	47,469	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015
Florida	369	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897
Illinois	77,341	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874
Indiana	12,054	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130
Kansas	113,453	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744
Kentucky	21,147	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702
Louisiana	400,832	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827
Michigan	15,899	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990
Mississippi	51,673	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100
Missouri	75	72	55	53	65	73	97	75	65	67	66	66	60
Montana	30,240	30,906	31,648	30,870	30,647	32,778	35,360	34,959	48,460	43,954	37,879	34,599	33,904
Nebraska	23,825	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106	11,451	10,062	8,705
Nevada	27	154	141	118	255	209	307	279	271	223	149	113	100
New Mexico	107,380	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525
New York	1,813	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256	1,194	1,126	1,018
North Dakota	21,992	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624
Ohio	5,405	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358
Oklahoma	192,913	193,081	202,732	201,962	202,524	203,441	224,839	230,749	223,623	224,729	223,574	213,313	207,633
Pennsylvania	6,009	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441
South Dakota	281	233	169	215	247	219	239	211	187	158	160	233	219
Tennessee	20	17	14	16	10	11	7	7	6	32	309	396	198
Texas	927,479	939,191	943,328	977,835	989,525	1,000,749	1,057,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,686
Utah	37,594	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570
Virginia	2	2	3	3	6	4	1	3	3	1	1	1	-
Washington	1	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,300	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677
Wyoming	133,910	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011
Total(Mb)	2,574.9	2,621.8	2,676.2	2,752.7	2,786.8	2,848.5	3,027.8	3,215.7	3,329.0	3,371.8	3,517.5	3,453.9	3,455.4
Daily Ave(Mb)	7.0	7.2	7.3	7.5	7.6	7.8	8.3	8.8	9.1	9.2	9.6	9.5	9.4

See notes and sources at end of table

Section IV
Table 4b

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	11,677	13,323	13,477	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746	19,804	21,581
Alaska	72,323	70,603	69,834	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527	630,401	666,233
Arizona	804	740	635	519	427	418	472	406	357	335	237	215	175
Arkansas	18,016	16,527	16,133	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849	18,730	19,044
California	336,075	323,003	322,199	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688	412,020	423,877
Colorado	36,590	37,508	38,089	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050	28,845	30,246
Florida	32,695	36,351	41,877	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476	14,462	11,458
Illinois	30,669	27,553	26,067	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200	28,868	30,265
Indiana	5,312	4,919	4,632	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321	5,526	5,168
Kansas	66,227	61,691	59,106	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594	75,729	75,407
Kentucky	8,687	7,837	7,556	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886	7,777	7,790
Louisiana	831,524	737,324	650,840	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569	515,268	508,239
Michigan	14,614	18,021	24,420	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736	30,554	27,300
Mississippi	56,102	50,779	46,614	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455	32,776	30,641
Missouri	60	56	57	61	60	54	91	130	226	202	269	285	243
Montana	34,620	34,554	32,844	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225	29,761	29,768
Nebraska	7,240	6,611	6,120	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380	6,452	6,943
Nevada	96	129	115	143	661	1,156	1,235	880	700	613	810	1,907	3,039
New Mexico	100,986	98,695	95,063	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169	79,336	78,530
New York	967	896	875	857	824	852	855	824	841	834	831	840	1,071
North Dakota	20,235	19,697	20,452	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690	52,652	50,857
Ohio	8,796	9,088	9,578	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971	15,271	14,988
Oklahoma	191,204	177,785	163,123	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604	168,385	162,739
Pennsylvania	3,282	3,478	3,264	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282	4,284	4,851
South Dakota	275	494	472	447	632	869	846	765	973	1,158	1,172	1,340	1,596
Tennessee	201	769	682	598	820	593	614	743	918	1,132	1,056	920	786
Texas	1,294,671	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676	904,774	888,831
Utah	32,656	39,363	42,301	34,304	33,113	31,368	27,728	24,978	25,860	22,440	29,534	34,689	40,792
Virginia	-	3	3	3	2	2	4	10	13	49	65	32	26
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,385	2,665	2,479	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628	3,524	3,555
Wyoming	141,914	139,997	135,943	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303	124,269	128,514
Total(Mb)	3,360.9	3,202.6	3,056.8	2,976.2	3,009.3	3,178.2	3,121.3	3,146.4	3,128.6	3,156.7	3,171.0	3,249.7	3,274.6
Daily Ave(Mb)	9.2	8.8	8.4	8.1	8.2	8.7	8.6	8.6	8.6	8.6	8.7	8.9	9.0

See notes and sources at end of table

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1986	1987	1988	1989	1990
Alabama	21,122	20,607	20,797	19,813	18,538
Alaska	681,310	715,955	738,143	683,980	647,310
Arizona	161	131	113	138	122
Arkansas	15,778	14,230	13,606	11,261	10,387
California	406,665	395,698	386,014	364,249	350,900
Colorado	29,309	28,802	32,352	30,665	30,454
Florida	9,383	8,270	7,746	7,289	5,674
Illinois	27,245	23,980	22,476	20,377	19,954
Indiana	4,759	3,738	3,665	3,310	3,000
Kansas	67,034	59,884	58,824	55,484	55,427
Kentucky	6,475	5,743	5,458	5,414	5,411
Louisiana	512,108	473,989	435,166	402,589	393,706
Michigan	25,688	25,972	23,250	21,566	19,675
Mississippi	29,997	28,103	27,553	27,403	27,033
Missouri	110	110	156	136	146
Montana	27,072	25,059	23,338	20,956	19,810
Nebraska	7,098	6,091	5,978	6,232	5,890
Nevada	2,907	3,112	3,230	3,218	4,012
New Mexico	75,712	72,328	71,235	68,713	67,247
New York	853	710	566	495	416
North Dakota	45,628	41,351	39,343	36,744	36,716
Ohio	13,442	12,153	11,711	10,219	10,008
Oklahoma	149,105	134,378	128,874	117,493	112,274
Pennsylvania	3,783	3,302	2,830	2,702	2,643
South Dakota	1,586	1,644	1,657	1,613	1,648
Tennessee	644	614	601	532	508
Texas	839,606	787,516	764,793	717,821	702,160
Utah	39,172	35,788	33,018	28,416	27,604
Virginia	18	17	25	21	15
Washington	-	--	--	--	--
West Virginia	3,145	2,835	2,621	2,243	2,143
Wyoming	121,337	115,267	113,985	107,713	103,855
Total(Mb)	3,168.3	3,047.4	2,979.1	2,778.8	2,684.7
Daily Ave(Mb)	8.7	8.4	8.2	7.6	7.4

(a) Includes lease condensate.

SOURCE: 1947-1965: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1980-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IV
Table 5

United States Stripper Well Production by State
(In Thousands of Barrels)

State	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980(b)	1981	1982
Alabama	--	–	26.2	45.7	87.1	116.7	162.4	139.2	120.7	144.4	124.8	121.9	157.7
Arizona	--	2.6	1.8	0.1	3.7	5.3	5.7	6.7	4.8	4.5	15.8	22.6	23.9
Arkansas	7,719.3	7,238.9	7,281.5	6,658.6	6,747.8	5,043.7	5,198.9	6,171.5	7,753.9	7,231.2	5,689.5	5,465.0	5,131.9
California	51,737.9	58,245.3	65,530.8	61,451.6	77,497.2	60,574.2	52,245.7	51,409.6	49,558.2	45,520.8	44,109.7	54,803.8	55,419.4
Colorado	2,149.5	2,050.3	2,024.1	1,919.6	1,829.5	1,953.4	2,012.5	2,017.0	2,018.1	1,955.0	1,989.2	2,158.7	2,203.7
Illinois	42,860.8	38,304.3	33,128.2	28,826.6	26,023.9	25,214.7	24,936.2	23,614.2	21,159.7	20,324.9	20,166.5	22,238.4	23,989.1
Indiana	7,777.1	6,439.3	6,108.4	5,254.2	4,919.9	4,031.7	4,470.8	5,255.3	4,559.9	4,556.6	4,019.4	4,781.2	4,567.9
Kansas	55,835.4	51,857.1	50,447.9	45,948.7	44,615.0	43,706.7	44,433.0	44,189.8	44,461.1	43,947.6	44,545.1	45,010.4	47,629.1
Kentucky	11,301.0	10,531.0	9,128.0	7,314.0	6,463.9	6,182.8	6,172.8	5,420.8	4,712.7	4,548.8	4,572.5	4,479.2	5,143.6
Louisiana	8,466.8	8,077.8	7,598.8	7,324.7	7,501.8	7,574.2	8,176.0	7,739.5	7,916.1	7,680.7	7,657.3	9,011.5	9,172.0
Michigan	4,754.6	4,731.7	4,826.2	4,863.3	4,883.0	4,760.3	4,601.8	6,233.0	5,601.9	5,620.5	4,717.0	2,448.5	2,820.1
Mississippi	875.4	1,043.0	425.3	438.0	571.5	648.8	1,214.6	1,349.3	1,233.5	1,600.9	1,890.4	3,804.7	2,236.5
Missouri	66.3	66.1	59.3	59.8	56.0	57.0	60.3	59.5	53.3	54.3	127.4	226.2	52.5
Montana	7,454.5	1,919.3	1,910.4	2,143.9	2,024.0	3,578.7	2,947.3	3,255.3	2,804.7	2,829.5	2,710.1	2,748.0	2,881.0
Nebraska	1,056.1	1,191.0	1,121.7	1,196.4	1,378.8	1,545.4	1,758.0	2,012.3	2,024.8	1,865.7	2,236.5	2,510.3	2,878.6
New Mexico	10,201.5	10,187.3	10,074.8	10,223.8	10,835.4	11,082.5	11,141.1	11,547.2	11,830.8	12,067.9	12,924.4	13,462.8	14,207.2
New York	1;193.5	1,096.7	1,018.0	969.0	896.0	875.0	857.0	813.0	852.0	855.0	824.0	849.0	719.0
North Dakota	853.8	936.5	798.1	853.8	933.5	929.7	1,075.1	1,145.9	1,196.5	1,250.2	1,225.1	1,386.1	1,492.5
Ohio	6,904.8	5,800.2	6,550.6	6,157.4	6,361.6	6,704.6	6,996.1	7,251.2	7,808.1	8,366.8	9,049.5	9,485.9	10,199.4
Oklahoma	85,645.2	80,895.8	77,967.1	74,109.9	73,694.7	72,530.6	73,459.3	74,400.4	74,175.4	76,000.5	79,945.0	83,248.7	94,237.0
Pennsylvania	4,015.0	3,798.0	3,441.0	3,282.0	3,399.0	3,199.0	2,950.0	2,659.4	2,564.5	2,816.7	2,650.5	3,606.0	3,717.9
South Dakota	–	27.9	25.8	26.3	21.0	18.0	20.5	14.5	16.5	22.3	24.7	39.3	55.4
Tennessee	11.8	29.9	24.5	44.8	107.8	125.6	140.4	194.1	269.9	367.5	293.4	290.5	N.A
Texas	123,736.6	122,417.4	116,635.7	112,246.9	126,386.9	126,018.3	129,699.8	127,886.4	131,210.9	136,590.2	141,825.2	145,939.8	143,928.7
Utah	90.3	82.7	97.1	132.0	123.5	98.2	261.8	136.4	134.5	180.0	220.3	376.7	N.A
Virginia	0.9	0.6	0.1	0.0	2.8	3.0	2.7	1.7	2.4	3.7	9.5	13.2	49.4
West Virginia	3,124.0	2,969.0	2,677.0	2,407.0	2,673.0	2,478.0	2,400.0	2,384.0	2,255.2	2,381.9	2,312.6	2,607.1	2,683.0
Wyoming	3,455.3	3,382.3	2,996.4	1,785.1	1,897.9	5,107.0	4,790.7	5,224.7	5,333.3	5,597.0	5,210.5	5,366.9	6,354.5
U.S. TOTAL(c)	441,287.2	423,322.1	411,924.8	385,683.5	411,936.0	394,162.9	392,190.5	392,531.9	391,633.1	394,405.1	401,095.2	426,502.4	441,951.0

See notes and sources at end of table

Section IV
Table 5a

United States Stripper Well Production by State
(In Thousands of Barrels)

State	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	172.5	171.8	189.0	190.8	193.3	300.8	1,461.1	1,485.6
Arizona	25.6	29.0	28.1	25.5	30.1	28.9	25.6	26.1
Arkansas	7,117.9	5,653.3	5,285.8	5,113.5	4,888.2	6,687.8	6,575.4	5,693.5
California	55,993.3	57,124.5	41,573.4	37,181.7	37,795.8	38,075.6	37,285.9	36,405.1
Colorado	3,629.8	3,329.6	2,682.3	6,216.4	7,323.4	6,609.6	5,985.8	5,698.4
Illinois	25,889.5	25,983.9	27,718.6	24,157.2	21,682.2	20,025.7	18,407.0	18,520.3
Indiana	4,336.4	4,401.2	4,103.9	3,827.3 (a)	3,657.2 (a)	3,576.0	3,309.4	3,001.9
Kansas	48,267.4	48,664.8	50,861.4	61,434.9	57,802.8	57,051.3	46,189.1	40,872.6
Kentucky	5,521.9	6,630.2	6,696.0	5,514.3	4,881.7	4,564.3	4,396.1	4,337.8
Louisiana	9,000.0	9,844.0	9,000.0	10,059.3	8,809.5	8,242.3	7,429.5	7,154.1
Michigan	3,144.9	3,228.1	3,272.2	2,781.7 (a)	2,674.0	3,891.4 (a)	3,135.6	4,599.4
Mississippi	1,286.2	1,330.2	1,721.3	1,121.0	1,270.0	780.2	707.5	801.5
Missouri	270.8	270.9	250.0	182.3	100.9	146.7	115.2	119.7
Montana	3,103.8	2,577.1	2,936.6	2,709.2	2,650.9	2,563.5	2,447.6	2,448.5
Nebraska	3,418.0	2,974.4	2,947.3	2,617.2	2,687.7	2,446.3	2,110.7	2,011.2
New Mexico	14,722.3	15,016.0	15,366.5	14,747.5	14,377.8	14,653.1	14,309.1	14,295.6
New York	774.3	679.9	600.6	488.9	511.3	485.2	431.5	382.6
North Dakota	1,537.3	1,755.7	1,905.2	1,692.8	1,833.3	1,897.7	1,925.3	2,053.0
Ohio	10,479.8	10,689.8	10,491.3	9,766.6	8,828.8	8,507.8	7,423.9	7,271.0
Oklahoma	94,430.5	94,045.6	91,841.8	95,902.8	109,081.6	109,440.1	81,675.5	78,599.1
Pennsylvania	3,950.5	4,241.7	4,257.4	3,356.1	2,870.1	2,583.2	2,602.0	2,622.1
South Dakota	43.9	82.1	65.3	34.5	57.4	39.5	55.2	63.7
Tennessee	583.7	510.3	450.8	474.6	444.8	488.6	457.1	419.1
Texas	153,688.5	152,719.8	158,738.5	147,986.4	141,704.3	140,503.8	129,894.5	135,849.7
Utah	542.7	1,088.8	1,550.3	877.8	935.4	932.9	926.7	1,034.5
Virginia	21.6	27.2	20.7	14.1	15.9	15.7	21.3	12.0
West Virginia	3,116.5	3,270.0	3,346.0	2,988.0	2,765.2	2,572.1	2,223.5	2,121.6
Wyoming	6,944.0	7,118.8	7,983.4	7,984.0	6,963.2	5,890.3	5,388.4	5,297.1
U.S. TOTAL(c)	462,013.5	463,458.7	455,883.8	449,446.5	446,836.8	442,800.3	386,915.8	383,196.9

(a) Estimate.
(b) Total includes production of 9.4 thousand barrels in Nevada.
(c) Totals may not add due to independent rounding.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association.
National Stripper Well Survey

Section IV
Table 6

Oil Volume, Value, and Revenues Received from Onshore Federal and Indian Lands

	Federal			Indian		
Year	Volume (000 bbl)	Market Value (000 $)	Oil Revenues Received (000 $)	Volume (000 bbl)	Market Value (000 $)	Oil Revenues Received (000 $)
1920-1990	7,894,734.0	55,059,994.9	6,905,518.0	1,299,384.6	8,378,140.7	1,191,722.1
1980	149,699.3	3,275,608.5	413,403.2	21,991.8	449,435.0	67,185.9
1981	155,573.7	4,891,778.8	604,783.0	21,944.9	705,243.0	103,919.4
1982	149,612.8	4,273,036.0	524,530.2	19,809.9	611,292.2	92,559.8
1983	151,456.8	4,118,421.3	523,898.7	20,083.2	593,094.9	89,727.6
1984	152,339.4	4,086,190.8	519,046.6	21,801.3	584,887.1	75,973.0
1985	169,968.7	4,117,255.9	492,367.9	20,432.6	519,968.8	75,026.0
1986	157,297.5	2,227,484.7	268,689.6	19,977.9	295,214.3	42,420.4
1987	149,977.5	2,389,418.1	289,069.7	18,989.9	321,775.0	45,813.8
1988	138,989.6	1,887,117.9	230,896.9	16,876.1	247,010.7	36,046.7
1989	132,705.3	2,136,264.9	263,056.7	15,472.4	269,802.0	40,835.9
1990	145,938.3	2,927,745.4	362,642.9	15,317.6	330,457.5	52,207.3

SOURCE: U.S. Minerals Management Service: Mineral Revenues 1990, Report on Receipts from Federal and Indian Leases.

Section IV
Table 7

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1960		1970		1980		1983	
Company	Production	Company	Production		Production	Company	Production
Texaco	477.6	Standard of New Jersey	946.0	Exxon	787.0	Exxon	781.0
Standard of New Jersey	439.0	Texaco	808.0	Standard of Ohio	715.8	Atlantic Richfield	652.8
Gulf	386.2	Gulf	626.0	Atlantic Richfield	555.7	Standard of Ohio	612.0
Shell	354.9	Shell	595.0	Shell	511.0	Shell	524.0
Standard of California	297.8	Standard of California	474.4	Standard of Indiana	464.0	Standard of Indiana	403.0
Standard of Indiana	286.0	Standard of Indiana	466.0	Texaco	413.0	Texaco	346.0
Phillips	222.5	Atlantic Richfield	405.7	Gulf	364.2	Gulf	319.1
Socony-Mobil	204.1	Mobil	385.0	Standard of California	335.0	Standard of California	317.6
Continental	171.0	Getty	317.0	Mobil	318.0	Mobil	304.0
Sinclair	139.0	Union	314.0	Getty	271.0	Phillips	288.0
Cities Service	125.2	Phillips	270.2	Phillips	269.7	Getty	283.8
Sun	114.1	Sun	258.8	Sun	206.1	Sun	204.6
Ohio Oil (Marathon)	104.8	Cities Service	202.7	Union	173.4	Unocal (Union)	170.4
Union	102.9	Continental	188.0	Marathon	168.3	U.S. Steel	157.3
Atlantic Refining	97.7	Marathon	174.9	Cities Service	154.7	Occidental	148.0
Tidewater	89.7	City of Long Beach(a)	163.5	Conoco	148.0	DuPont	116.0
Amerada	80.9	Amerada Hess	95.7	Amerada Hess	88.3	Tenneco	90.4
Superior	79.7	Tenneco	87.0	Tenneco	79.2	Amerada Hess	74.1
Sunray Mid-Continent	71.2	Superior	65.2	City of Long Beach(a)	72.6	City of Long Beach(a)	72.1
Skelly	69.0	Louisiana Land & Exploration	62.0	El Paso	72.3	Union Pacific	63.0
U.S. TOTAL	7,964.0	U.S. TOTAL	11,297.0	U.S. TOTAL	10,170.0	U.S. TOTAL	10,299.0

See notes and sources at end of table

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1984		1985		1986		1987	
Company	Production	Company	Production	Company	Production	Company	Production
Exxon	778.0	Exxon	768.0	Exxon	761.0	BP America (Standard Oil)(i)	851.3
Texaco(b)	673.8	Standard Oil (Ohio)	719.7	Standard Oil	726.6	Exxon	756.0
Atlantic Richfield	654.7	Atlantic Richfield	647.7	ARCO (Atlantic Richfield)	659.1	ARCO	665.0
Chevron (Standard of California)(c)	646.1	Texaco	640.0	Texaco	590.0	Shell	558.0
Standard of Ohio	634.4	Chevron	587.1	Shell	571.0	Texaco	540.0
Shell	534.0	Shell	530.0	Chevron	546.2	Chevron	506.9
Standard of Indiana	409.0	Amoco (Std. of Ind.)	401.1	Amoco	304.0	Amoco	394.0
Mobil(d)	365.6	Mobil	352.0	Mobil	342.0	Mobil	338.0
Phillips(e)	347.9	Phillips	346.0	Phillips	316.0	Phillips	287.0
Sun	194.1	Sun	195.1	USX (U.S. Steel)(g)	189.0	USX	171.1
U.S. Steel(f)	174.1	Unocal	170.9	Sun	171.3	Unocal	167.0
Unocal	168.8	U.S. Steel	160.2	Unocal	167.9	Sun	159.3
Occidental	150.0	Occidental	147.6	Occidental	148.0	Occidental	129.0
DuPont	120.0	DuPont	120.0	DuPont	126.0	DuPont	107.0
Tenneco	98.6	Tenneco	101.4	Tenneco	104.1	Tenneco	100.9
City of Long Beach(a)	78.6	City of Long Beach(a)	81.7	City of Long Beach(a)	76.9	Burlington Northern	79.8
Amerada Hess	72.7	Amerada Hess	72.0	Union Pacific	71.2	Amerada Hess	68.5
Union Pacific	68.8	Union Pacific	67.9	Burlington Northern(h)	71.0	City of Long Beach(a)	67.8
El Paso	53.8	El Paso	64.7	Amerada Hess	68.8	Union Pacific	61.1
Mitchell	50.0	Santa Fe	49.9	Enron	50.9	Enron	57.1
U.S. TOTAL	10,554.0	U.S. TOTAL	10,636.0	U.S. TOTAL	10,289.0	U.S. TOTAL	10,008.0

See notes and sources at end of table

Section IV
Table 7b

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1988		1989	
Company	Production	Company	Production
BP America	857.0	BP America	784.0
Exxon	760.0	Exxon	693.0
ARCO	674.2	ARCO	660.0
Shell	527.0	Shell	494.0
Texaco	526.0	Chevron	481.9
Chevron	483.8	Texaco	479.5
Amoco	409.0	Amoco	390.0
Mobil	304.1	Mobil	293.2
Phillips	284.0	Phillips	254.0
Unocal	169.0	Unocal	165.0
Oryx Energy (Sun)(j)	155.0	Oryx Energy	143.8
USX	154.1	USX	143.5
Occidental	144.0	Occidental	135.0
DuPont	105.0	DuPont	112.0
Amerada Hess	68.0	Amerada Hess	71.0
Union Pacific	66.5	Union Pacific	63.8
City of Long Beach(a)	62.9	City of Long Beach(a)	53.9
Enron	56.5	Enron(k)	53.3
Santa Fe Pacific	53.4	Santa Fe Pacific	50.7
Valero Energy	47.0	Valero Energy	43.7
U.S. TOTAL	9,818.0	U.S. TOTAL	9,219.0

See notes and sources at end of table

Section IV
Table 7c

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

(a) Long Beach, California owns several oil fields and a large percentage of the oil produced from these fields. It has contracts with Arco, Exxon, Mobil, Shell, Texaco, Unocal and others to develop the properties. by Long Beach is not included in the contracted companies' net production figures, the city has been included as a separate incorporated municipality.

(b) Texaco acquired Getty Oil Company on March 1

(c) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984 Standard changed its name to Chevron. Chevron's figure includes Gulf's 1984 full-year production.

(d) Mobil acquired Superior on September 28, 1984. Mobil's figure includes 100% of Superior's estimated annualized production.

(e) Phillips acquired Aminoil from R.J. Reynolds on October 26, 1984. Phillips' figure includes 100% of Aminoil's estimated annualized production.

(f) U.S. Steel acquired the U.S. assets of Husky Oil Ltd. on May 31, 1984. U.S. Steel's figure includes 100% of Husky's estimated annualized production of its U.S. assets.

(g) On February 11, 1986 a subsidiary of U.S. Steel merged with Texas Oil and Gas (TXO). ON July 8, 1986, in recognition of its major diversification into oil and gas businesses, U.S. Steel changed its name to USX Corporation.

(h) On December 13, 1985 Southland Royalty became a wholly owned subsidiary of Burlington Northern Inc. (BNI). BNI also is the parent company of El Paso Natural Gas.

(i) BP America was formed in 1987 through the acquisition of The Standard Oil Company by BP North America Inc.

(j) On November 1, 1988 Oryx Energy Company acquired Sun Company's domestic oil and gas exploration and production business. Oryx's figure includes 153.7 thousand barrels of crude oil, condensate, and NGL produced daily by Sun Company during the first 10 months of 1988.

(k) Enron's figure includes the purchase of CSX Energy Corporation

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R.

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	55.3	47.6	47.2	52.8
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	170.8	138.9	559.2	573.6	555.2
Arizona	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.4	28.7
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1	12.6	12.4	12.6
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3	21.6	21.9	20.7
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1	63.4	56.3	50.7
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104.4	110.5
Illinois	7.1	6.8	6.6	6.2	6.0	5.7	6.1	6.1	7.5	7.4	6.7	6.9	6.6	6.6	6.6	6.9	6.8
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4	5.8	5.8	5.6
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7	7.6	7.0	6.4
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8	2.5	2.5	2.9
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5	47.1	51.1	52.2
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3	12.0	10.9	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5	50.7	56.8	61.3
Missouri	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.4	1.4
Montana	8.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8	24.0	24.7	23.1
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0	38.9	37.6	34.3
Nevada	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	96.6	80.8
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7	20.8	19.1	18.3
New York	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.2	0.3	0.3
North Dakota	--	--	--	--	--	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3	41.4	39.7	37.9
Ohio	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.0	0.9	0.9	0.9	1.1
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9	6.7	6.9	6.8
Pennsylvania	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.4	27.4
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	1.1
Texas	21.1	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3	13.2	13.1	13.5
Utah	--	--	--	--	--	--	--	--	--	--	75.7	182.7	180.1	137.6	114.0	103.3	108.6
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	1.5
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3	50.6	48.1	52.1
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	41.9	45.4	42.0	34.1	12.0	13.4	--	--
TOTAL	12.0	12.8	11.4	11.8	13.1	13.0	13.1	12.6	13.2	13.3	12.8	11.7	12.2	12.0	12.1	12.3	12.7

See notes and sources at end of table

Section IV
Table 8a

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5	62.1	64.8	79.1	85.0	80.3	90.1
Alaska	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4	947.2	897.5	1,935.6	3,805.3	3,765.9	3,853.4
Arizona	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5	65.7	51.6	41.8	36.4	37.0	33.6
Arkansas	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3	6.1	6.7	7.2	7.1	6.5	6.1
California	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4	21.7	21.3	22.3	21.9	22.1	21.9
Colorado	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2	45.1	40.4	36.9	32.1	26.4	23.5
Florida	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8	822.4	849.5	903.1	1,037.7	1,143.6	993.0
Illinois	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1	3.0	3.1	3.0	2.7	2.5	2.5
Indiana	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1	2.8	2.6	2.9	2.5	2.4	2.5
Kansas	6.2	6.1	6.1	5.8	5.6	5.4	5.3	5.0	4.8	44.0	4.1	3.9	3.8	3.7	3.6	3.6	3.6
Kentucky	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5	1.5	1.5	1.3	1.1	1.1	1.1
Louisiana	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3	64.0	61.4	61.5	60.3	54.5	50.5
Michigan	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4	17.0	22.4	23.5	24.4	24.6	21.0
Mississippi	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0	56.9	56.6	47.0	40.0	32.9	26.3
Missouri	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1	1.0	1.0	0.9	0.9	1.2	1.4
Montana	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8	28.3	27.4	27.0	24.8	23.2	22.2
Nebraska	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2	14.5	13.6	12.2	11.3	11.0	10.5
Nevada	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1	42.0	43.4	120.7	186.3	188.0	120.2
New Mexico	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8	19.3	18.2	16.9	14.4	11.2	11.2
New York	0.4	0.4	0.4	1.1	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5	0.4
North Dakota	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3	32.2	33.3	40.2	34.7	34.4	39.6
Ohio	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
Oklahoma	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7	6.2	6.1	5.9	5.5	5.2	5.2
Pennsylvania	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
South Dakota	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7	37.5	30.2	30.9	30.9	25.8	21.9
Tennessee	0.7	0.8	0.6	0.6	0.5	2.6	18.6	15.9	7.2	7.9	19.1	11.5	8.4	9.0	5.5	5.1	5.2
Texas	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7	20.9	20.2	19.2	17.8	16.6	10.5
Utah	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4	96.6	74.7	68.6	62.8	53.3	41.7
Virginia	2.3	1.6	0.7	2.7	1.8	0.5	0.5	0.9	--	--	5.5	1.6	1.2	1.0	1.2	1.8	3.6
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.4
Wyoming	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1	41.1	39.6	37.1	35.3	33.9	29.0
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	12.9	13.3	14.2	15.3	16.2	16.9	18.0	18.1	18.4	18.3	17.6	16.8	16.3	16.4	17.0	16.3	15.9

See notes and sources at end of table

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	81.9	76.3	69.3	71.3	73.0	68.6	64.5	63.7	75.5	58.2
Alaska	2,298.8	2,231.1	2,550.3	2,691.3	1,868.3	1,683.1	1,613.1	1,545.5	1,360.9	1,209.7
Arizona	27.9	25.5	19.1	18.9	17.1	N.A.	15.6	15.4	15.1	13.4
Arkansas	6.1	6.0	6.2	5.4	5.4	4.3	4.6	4.7	3.9	3.9
California	22.4	23.3	23.5	23.2	23.3	25.5	23.8	23.0	23.0	22.2
Colorado	28.5	26.9	17.3	14.7	15.2	14.6	14.3	14.1	13.2	12.6
Florida	814.3	570.8	389.5	286.3	210.7	225.5	185.7	194.2	197.7	187.3
Illinois	2.5	2.8	2.8	2.6	2.7	2.3	2.0	1.9	1.7	1.7
Indiana	2.3	2.5	2.3	2.2	2.0	1.7	1.4	1.3	1.2	1.1
Kansas	4.3	4.2	4.0	4.2	4.0	3.8	3.4	3.4	3.4	3.3
Kentucky	1.2	1.3	1.4	1.1	1.0	0.8	0.7	0.7	0.6	0.7
Louisiana	48.6	56.1	56.2	57.4	53.9	57.0	43.8	44.0	48.5	45.2
Michigan	20.3	19.0	17.7	17.1	14.6	14.4	14.2	13.1	10.6	11.8
Mississippi	29.7	34.3	31.6	35.0	24.2	36.8	35.9	36.7	20.9	34.1
Missouri	1.5	1.1	1.3	1.4	1.1	0.7	1.5	1.5	0.5	0.5
Montana	21.3	19.7	17.1	19.4	19.4	18.9	17.0	15.4	14.3	14.1
Nebraska	9.8	9.4	8.3	8.4	9.1	10.6	9.0	9.0	9.6	11.2
Nevada	NA	NA	NA	140.8	185.0	274.6	243.6	284.7	191.7	239.0
New Mexico	12.0	11.8	11.8	11.9	11.5	11.3	10.8	10.9	10.6	9.9
New York	0.4	0.4	0.4	0.5	0.6	0.5	0.4	0.4	0.3	0.3
North Dakota	48.4	45.6	37.2	42.3	37.7	35.3	32.6	30.6	29.2	28.4
Ohio	1.7	1.6	1.6	1.6	1.5	1.2	1.1	1.1	0.9	0.9
Oklahoma	5.1	4.7	4.5	4.6	4.3	4.1	3.6	3.6	3.3	3.8
Pennsylvania	0.4	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.3	0.3
South Dakota	22.2	24.4	22.9	26.5	26.5	29.4	30.2	30.0	28.3	30.3
Tennessee	5.1	4.8	4.2	3.2	2.7	2.2	2.6	2.3	2.0	1.9
Texas	14.3	13.5	12.6	12.1	11.6	11.4	10.9	10.5	10.5	10.2
Utah	45.9	38.8	49.5	52.7	57.5	57.8	54.9	48.8	34.8	38.4
Virginia	NA	NA	NA	NA	NA	1.5	1.6	2.4	2.9	1.6
Washington	--	--	--	--	--	--	--	--	--	--
West Virginia	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4
Wyoming	30.9	27.5	28.6	29.4	29.2	28.0	28.8	26.3	25.6	25.0
Other	--	36.3	43.6	2.8	2.5	--	--	--	--	--
TOTAL	15.4	14.9	14.4	14.3	13.9	13.9	13.5	13.3	12.5	12.5

(a) Includes lease condensate.

SOURCE: 1947-1974. U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement.
1975-1980. U.S. Department of Energy, Energy Information Administration, Annual Petroleum Statements.
1981-1990. Calculated by API based on crude oil production from U.S. Energy Information Administration
and number of producing wells from World Oil Magazine.

Section IV
Table 9

Historical World Crude Oil Production by Area:1857-1946
(Thousands of Barrels)

Year	United States	Canada	Latin America(a)	Europe(b)	Middle East	Africa	Asia-Pacific	Rest of World	Total World
1857	0	0	0	2	0	0	0	0	2
1858	0	0	0	4	0	0	0	0	4
1859	2	0	0	5	0	0	0	0	7
1860	500	0	0	8	0	0	0	0	508
1861	2,114	0	0	17	0	0	0	0	2,131
1862	3,057	12	0	23	0	0	0	0	3,092
1863	2,611	83	0	69	0	0	0	0	2,763
1864	2,116	90	0	98	0	0	0	0	2,304
1865	2,498	110	0	108	0	0	0	0	2,716
1866	3,598	175	0	126	0	0	0	0	3,899
1867	3,347	190	0	172	0	0	0	0	3,709
1868	3,646	200	0	144	0	0	0	0	3,990
1869	4,215	220	0	261	0	0	0	0	4,696
1870	5,261	250	0	288	0	0	0	0	5,799
1871	5,205	270	0	255	0	0	0	0	5,730
1872	6,293	308	0	276	0	0	0	0	6,877
1873	9,894	365	0	579	0	0	0	0	10,838
1874	10,927	169	0	837	0	0	0	0	11,933
1875	11,963	220	0	964	0	0	5	0	13,152
1876	9,133	312	0	1,599	0	0	7	0	11,051
1877	13,350	312	0	2,082	0	0	10	0	15,754
1878	15,397	312	0	2,690	0	0	18	0	18,417
1879	19,914	575	0	3,089	0	0	23	0	23,601
1880	26,286	350	0	3,356	0	0	26	0	30,018
1881	27,661	275	0	4,040	0	0	17	0	31,993
1882	30,511	275	0	5,064	0	0	15	0	35,865
1883	23,450	250	0	6,535	0	0	20	0	30,255
1884	24,218	250	0	11,473	0	0	28	0	35,969
1885	21,859	250	0	14,626	0	0	30	0	36,765
1886	28,065	584	0	18,556	0	0	38	0	47,243
1887	28,283	526	0	18,969	0	0	29	0	47,807
1888	27,612	695	0	23,821	0	0	37	0	52,165
1889	35,164	705	0	25,491	0	0	147	0	61,507
1890	45,824	795	0	29,844	0	0	170	0	76,633
1891	54,293	755	0	35,809	0	0	243	0	91,100
1892	50,515	780	0	37,133	0	0	311	0	88,739
1893	48,431	798	0	41,804	0	0	1,005	0	92,038
1894	49,344	829	0	37,976	0	0	1,188	0	89,337
1895	52,892	726	0	48,316	0	0	1,758	0	103,692
1896	60,960	727	47	50,371	0	0	2,094	0	114,199
1897	60,476	710	71	57,376	0	0	3,360	0	121,993
1898	55,364	758	71	64,961	0	0	3,825	0	124,979
1899	57,071	808	89	69,903	0	0	3,276	0	131,147
1900	63,621	913	274	80,126	0	0	4,203	0	149,137
1901	69,389	757	285	90,427	0	0	6,562	20	167.440
1902	88,767	531	327	87,115	0	0	5,043	26	181,809
1903	100,461	487	353	84,053	0	0	9,489	36	194,879
1904	117,081	553	416	88,746	0	0	11,112	40	217,948
1905	134,717	634	624	65,752	0	0	13,334	30	215,091
1906	126,494	569	1,033	71,376	0	0	13,761	30	213,263

See notes and sources at end of table

Section IV
Table 9a

Historical World Crude Oil Production by Area:1857-1946
(Thousands of Barrels)

Year	United States	Canada	Latin America(a)	Europe(b)	Middle East	Africa	Asia-Pacific	Rest of World	Total World
1907	166,095	789	1,756	79,242	0	0	16,338	30	264,249
1908	178,527	528	4,890	84,111	0	0	17,201	30	285,287
1909	183,171	421	4,200	91,291	0	0	19,606	20	298,709
1910	209,557	316	5,055	93,817	0	0	18,998	20	327,763
1911	220,449	291	14,316	88,903	0	21	20,361	20	344,361
1912	222,935	243	18,794	90,615	0	214	19,622	20	352,443
1913	248,446	228	28,402	85,111	1,857	98	21,183	20	385,345
1914	265,763	215	28,992	87,104	2,910	754	21,786	20	407,544
1915	281,104	215	36,753	86,677	3,616	216	23,442	10	432,033
1916	300,767	198	44,935	82,056	4,477	412	24,630	25	457,500
1917	335,316	214	60,867	73,704	7,147	952	24,662	29	502,891
1918	355,928	305	70,163	42,598	8,623	1,942	23,911	25	503,515
1919	378,367	241	93,358	45,150	10,139	1,522	27,078	20	555,875
1920	442,929	196	164,137	39,181	12,230	1,046	29,145	20	688,884
1921	472,183	188	203,047	43,297	16,673	1,258	29,336	20	766,002
1922	557,531	179	195,487	51,736	22,247	1,197	30,499	22	858,898
1923	732,407	170	166,448	56,374	25,230	1,063	34,020	24	1,015,736
1924	713,940	161	166,340	65,481	32,373	1,133	34,866	24	1,014,318
1925	763,743	332	156,324	76,367	34,038	1,238	35,868	23	1,067,933
1926	770,874	364	157,574	94,974	35,842	1,197	35,981	17	1,096,823
1927	901,129	477	166,943	110,496	40,026	1,275	42,223	13	1,262,582
1928	901,474	624	205,641	122,970	44,174	1,850	48,026	15	1,324,774
1929	1,007,323	1,117	235,455	141,764	42,943	1,888	55,339	38	1,485,867
1930	898,011	1,522	229,024	176,984	46,742	2,012	57,569	40	1,411,904
1931	851,081	1,543	201,218	222,372	45,276	2,045	50,074	47	1,373,656
1932	785,159	1,044	200,555	218,032	50,308	1,901	53,244	55	1,310,298
1933	905,656	1,145	203,143	216,679	55,340	1,670	57,364	3	1,441,000
1934	908,065	1,411	234,673	247,248	65,825	1,552	62,696	4	1,521,474
1935	996,596	1,447	251,071	254,392	85,946	1,305	64,190	4	1,654,951
1936	1,099,687	1,500	262,975	261,058	97,789	1,282	67,245	4	1,791,540
1937	1,279,160	2,944	305,367	257,836	117,467	1,218	75,235	4	2,039,231
1938	1,214,355	6,966	301,464	267,064	119,808	1,608	76,772	4	1,988,041
1939	1,264,962	7,838	327,256	278,897	120,465	4,693	82,045	4	2,086,160
1940	1,353,214	8,591	312,942	284,094	102,691	6,532	81,743	14	2,149,821
1941	1,402,228	10,134	351,438	300,443	74,531	8,573	73,310	0	2,220,657
1942	1,386,645	10,365	255,151	295,536	102,753	8,316	34,334	0	2,093,100
1943	1,505,613	10,052	292,614	269,723	110,900	8,992	58,743	0	2,256,637
1944	1,677,904	10,099	381,747	331,649	147,496	9,452	33,942	0	2,592,289
1945	1,713,655	8,483	450,146	203,888	194,258	9,434	14,833	0	2,594,697
1946	1,733,939	7,586	516,167	214,046	256,369	9,091	8,232	0	2,745,430

(a) Includes Mexico beginning in 1901.
(b) Includes Western Europe plus U.S.S.R.
(c) Totals for Free World and Sino-Soviet Bloc are not available prior to 1947.

SOURCE: U.S. Department of Interior, Bureau of Mines, Mineral Yearbook.

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Colorado	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Oklahoma	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	2	500	2,114	3,057	2,611	2,116	2,498 (a)	3,596 (a)	3,347 (a)	3,646 (a)	4,215 (a)	5,261 (a)	5,205 (a)	6,293 (a)
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other States	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	2	500	2,114	3,057	2,611	2,116	2,498	3,598	3,347	3,646	4,215	5,261	5,205	6,293

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
California	NA	NA	175 (b)	12	13	15	20	40	100	129	143	262
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	NA	NA	NA	161 (c)	5 (c)	4 (c)
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	NA	NA	200 (b)	32	30	38	29	39	34	40	48	90
Oklahoma	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	9,894 (a)	10,927 (a)	8,788 (a)	8,969 (a)	13,135 (a)	15,164 (a)	19,685 (a)	26,028 (a)	27,376 (a)	30,054 (a)	23,128 (a)	23,772 (a)
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	NA	NA	2,800 (b)	120	172	180	180	179	151	128	126	90
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--
Other States	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	9,894	10,927	11,963 (b)	9,133	13,350	15,397	19,914	26,286	27,661	30,511 (d)	23,450	24,218

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
California	325	377	679	690	303	307	324	385	470	706	1,209	1,253
Colorado	--	--	76	298	317	369	665	824	594	516	438	361
Florida	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	1	1	1	1	(e)	(e)	(e)	(e)
Indiana	--	--	--	--	33	64	137	698	2,335	3,689	4,386	4,681
Kansas	--	--	--	--	1	1	1	5	18	40	44	114
Kentucky	5 (c)	5 (c)	5 (c)	5 (c)	5 (c)	6 (c)	9 (c)	7 (c)	3 (c)	2 (c)	2 (c)	2 (c)
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--		--	1,586	1,273	1,033	942	913	1,205
Ohio	662	1,783	5,023	10,011	12,472	16,125	17,740	16,363	16,250	16,792	19,545	23,941
Oklahoma	--	--	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)
Pennsylvania	20,776 (a)	25,798 (a)	22,356 (a)	16,489 (a)	21,487 (a)	28,458 (a)	31,424	27,149	19,283	18,078	18,231	19,379
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)	(e)	1
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	91	102	145	119	544	493	2,406	3,810	8,445	8,578	8,120	10,020
Wyoming	--	--	--	--	0	0	0	0	0	2	4	3
Other States	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
U.S. Total	21,859	28,065	28,283	27,612	35,164	45,824	54,293	50,515	48,431	49,345	52,892	60,960

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--	--
California	1,903	2,257	2,642	4,325	8,787	13,984	24,382	29,649	33,428	33,099	39,748	44,855	55,472
Colorado	385	444	390	317	461	397	484	502	376	328	332	380	311
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	1	(e)	(e)	(e)	(e)	(e)	--	--	181	4,397	24,282	33,686	30,898
Indiana	4,122	3,731	3,848	4,874	5,757	7,481	9,186	11,339	10,964	7,674	5,128	3,284	2,296
Kansas	81	72	70	75	179	332	932	4,251	12,014 (f)	21,718 (f)	2,410	1,802	1,264
Kentucky	(e)	6 (c)	18 (c)	62 (c)	137 (c)	185 (c)	554 (c)	998 (c)	1,217 (c)	1,214 (c)	821 (c)	728	639
Louisiana	--	--	--	--	--	549	918	2,959	8,910	9,077	5,000	5,789	3,060
Michigan	--	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
Montana	--	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--	--
New York	1,279	1,206	1,321	1,302	1,207	1,120	1,164	1,112	1,118	1,243	1,212	1,159	1,135
Ohio	21,561	18,739	21,142	22,363	21,648	21,014	20,480	18,877	16,347	14,788	12,207	10,859	10,633
Oklahoma	1	--	--	6	10	37	139	1,367	(f)	(f)	43,524	45,799	47,859
Pennsylvania	17,983	14,743	13,054	13,258	12,625	12,064	11,355	11,126	10,437	10,257	10,000	9,424	9,299
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--
Texas	66	546	669	836	4,394	18,084	17,956	22,241	28,136	12,568	12,323	11,206	9,534
Utah	--	--	--	--	--	--	--	--	--	--	(g)	(g)	(g)
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	13,090	13,615	13,911	16,196	14,177	13,513	12,899	12,645	11,578	10,121	9,095	9,523	10,745
Wyoming	4	5	6	5	5	6	9	12	8	7	9	18	20
Other States	(e)	(e)	(e)	2	2	1	3	3	3	3	4	15	6
U.S. Total	60,476	55,364	57,071	63,621	69,389	88,767	100,461	117,081	134,717	126,494	166,095	178,527	183,171

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	(g)	10,473	12,712	36,610	46,028	77,398	58,332	40,005
California	73,011	81,134	87,269	97,789	99,775	86,592	90,952	93,878	97,532	101,183	103,377	112,600	138,468	262,876	228,933	232,492	224,673	231,196
Colorado	240	227	206	189	223	208	197	121	143	121	111	108	97	86	445	1,226	2,768	2,831
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	33,143	31,317	28,601	23,894	21,920	19,042	17,714	15,777	13,366	11,960	10,774	10,043	9,383	8,707	8,081	7,863	7,760	6,994
Indiana	2,160	1,695	970	956	1,336	876	769	760	878	972	945	1,158	1,087	1,043	935	829	808	852
Kansas	1,129	1,279	1,593	2,375	3,104	2,823	8,738	36,536	45,451	33,048	39,005	36,456	31,766	28,250	28,836	38,357	41,498	41,069
Kentucky	469	472	484	525	503	437	1,202	3,088	4,368	9,278	8,738	9,013	8,973	8,069	7,407	6,759	6,274	6,719
Louisiana	6,841	10,720	9,263	12,499	14,309	18,192	15,248	11,392	16,043	17,188	35,714	27,103	35,376	24,919	21,124	20,272	23,201	22,818
Michigan	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	--	--	--	--	--	4	94	439
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	(g)	(g)	--	(g)	(g)	(g)	(g)	--	--	(g)	(g)	(g)	(g)	(g)	--	--	--	--
Montana	--	--	--	--	--	--	45	100	69	90	340	1,509	2,449	2,782	2,815	4,091	7,727	5,058
Nebraska	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--		(g)	(g)	(g)	(g)	(g)	98	1,060	1,666	1,226
New York	1,053	954	875	948	939	888	874	880	809	851	906	988	1,000	1,250	1,440	1,695	1,956	2,242
Ohio	9,916	8,817	8,969	8,781	8,536	7,825	7,744	7,751	7,285	7,736	7,400	7,335	6,781	7,085	6,811	7,212	7,272	7,593
Oklahoma	52,029	56,070	51,427	63,579	73,632	97,915	107,072	107,508	103,347	86,911	106,206	114,634	149,571	160,929	173,538	176,768	179,195	277,775
Pennsylvania	8,795	8,248	7,838	7,917	8,170	7,838	7,593	7,733	7,408	8,137	7,438	7,418	7,425	7,609	7,486	8,097	8,961	9,526
Tennessee	--	--	--	--	--	--	1	12	8	15	14	12	10	8	10	24	43	60
Texas	8,899	9,526	11,735	15,009	20,068	24,943	27,645	32,413	38,750	79,366	96,868	106,166	118,684	131,023	134,522	144,648	166,916	217,389
Utah	(g)	(g)	--	--	--	--	--	--	--	--	(g)	--	--	--	(g)	(g)	(g)	(g)
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	11,753	9,795	12,129	11,567	9,680	9,265	8,731	8,379	7,867	8,327	8,249	7,822	7,021	6,358	5,920	5,763	5,946	6,023
Wyoming	115	187	1,572	2,407	3,560	4,246	6,234	8,978	12,596	13,172	16,831	19,333	26,715	44,785	39,498	29,173	25,776	21,307
Other States	4	8	4	11	8	14	8	10	8	12	13	12	13	18	13	12	8	7
U.S. Total	209,557	220,449	222,935	248,446	265,763	281,104	300,767	335,316	355,928	378,367	442,929	472,183	557,531	732,407	713,940	763,743	770,874	901,129

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	32,096	24,917	19,702	14,791	12,051	11,686	11,182	11,008	10,469	11,764	18,180	21,238	25,775	26,327	26,628	27,600
California	231,811	292,534	227,329	188,830	178,128	172,010	174,305	207,832	214,773	238,521	249,749	224,354	223,881	230,263	248,326	284,188
Colorado	2,774	2,358	1,656	1,545	1,136	919	1,139	1,560	1,650	1,605	1,412	1,404	1,626	2,150	2,199	2,320
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4
Illinois	6,462	6,319	5,736	5,039	4,673	4,244	4,479	4,322	4,475	7,499	24,075	94,912	147,647	132,393	106,391	82,260
Indiana	1,052	981	994	840	806	737	838	777	822	844	995	1,711	4,978	7,411	6,743	5,283
Kansas	38,596	42,813	41,638	37,018	34,848	41,976	46,482	54,843	58,317	70,761	60,064	60,703	66,139	83,242	97,636	106,178
Kentucky	7,359	7,775	7,389	6,456	6,287	4,608	4,860	5,258	5,633	5,484	5,821	5,621	5,188	4,762	4,534	7,883
Louisiana	21,847	20,554	23,272	21,804	21,807	25,168	32,869	50,330	80,491	90,924	95,208	93,646	103,584	115,908	115,785	123,592
Michigan	594	4,528	3,911	3,789	6,910	7,942	10,603	15,776	11,928	16,628	18,745	23,462	19,753	16,359	21,754	20,768
Mississippi	--	--	--	--	--	--	--	--	--	--	--	107	4,400	15,327	28,833	18,807
Missouri	--	--	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	40	44	47	36	36
Montana	4,015	3,980	3,349	2,830	2,457	2,273	3,603	4,603	5,868	5,805	4,946	5,960	6,728	7,526	8,074	7,916
Nebraska	--	--	--	--	--	--	--	--	--	--	--	2	276	1,898	1,237	635
New Mexico	943	1,830	10,189	15,227	12,455	14,116	16,864	20,483	27,223	38,854	35,759	37,637	39,129	39,569	31,544	38,896
New York	2,603	3,377	3,647	3,363	3,508	3,181	3,804	4,236	4,663	5,478	5,045	5,098	4,999	5,185	5,421	5,059
Ohio	7,015	6,743	6,486	5,327	4,644	4,235	4,234	4,082	3,847	3,559	3,298	3,156	3,159	3,510	3,543	3,322
Oklahoma	249,857	255,004	216,486	180,574	153,244	182,251	180,107	185,288	206,555	228,839	174,994	159,913	156,164	154,702	140,690	123,152
Pennsylvania	9,956	11,820	12,803	11,892	12,412	12,624	14,478	15,810	17,070	19,189	17,426	17,382	17,353	16,750	17,779	15,757
Tennessee	46	19	21	6	5	5	10	15	(g)	(g)	(g)	50	24	12	9	10
Texas	257,320	296,876	290,457	332,437	312,478	402,609	381,516	392,666	427,411	510,318	475,850	483,528	493,209	505,572	483,097	594,343
Utah	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	11	12	4	3	4	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
West Virginia	5,661	5,574	5,071	4,472	3,876	3,815	4,095	3,902	3,847	3,845	3,684	3,580	3,444	3,433	3,574	3,349
Wyoming	21,461	19,314	17,868	14,834	13,418	11,227	12,556	13,755	14,582	19,166	19,022	21,454	25,711	29,878	32,812	34,253
Other States	6	7	7	7	16	30	41	50	63	66	70					
U.S. Total	901,474	1,007,323	898,011	851,081	785,159	905,656	908,065	996,596	1,099,687	1,279,160	1,214,355	1,264,962	1,353,214	1,402,228	1,386,645	1,505,613

See notes and sources at end of table

Section IV
Table 10f

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1944	1945	1946
Alabama	43	181	380
Arkansas	29,418	28,613	28,375
California	311,793	326,482	314,713
Colorado	3,083	5,036	11,856
Florida	12	30	57
Illinois	77,413	75,094	75,297
Indiana	5,118	4,868	6,726
Kansas	98,762	96,415	97,218
Kentucky	9,621	10,325	10,578
Louisiana	129,645	131,051	143,669
Michigan	18,490	17,267	17,074
Mississippi	16,337	19,062	24,298
Missouri	45	45	51
Montana	8,647	8,420	8,825
Nebraska	417	305	293
New Mexico	39,555	37,351	36,814
New York	4,697	4,648	4,863
Ohio	2,937	2,828	2,908
Oklahoma	124,616	139,299	134,794
Pennsylvania	14,118	12,515	12,996
Tennessee	9	8	10
Texas	746,699	754,710	760,215
Utah	--	--	--
Virginia	3	4	23
West Virginia	3,070	2,879	2,929
Wyoming	33,356	36,219	38,977
Other States			
U.S. Total	1,677,904	1,713,655	1,733,939

(a) Includes New York

(b) 1875 total U.S. production includes cumulative California production, 1861-1875; cumulative Ohio and West Virginia production, 1860-1875.

(c) Includes Tennessee.

(d) 1882 total U.S. production includes cumulative Kentuchy production, 1860-1882.

(e) Less than 500 barrels.

(f) In 1905 and 1906, Oklahoma production is included with Kansas

(g) Included in Other States.

SOURCE: U.S. Bureau of Mines, Mineral Industry Surveys.

BASIC PETROLEUM DATA BOOK

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Year	Total Mining	Petroleum and Natural Gas Extraction: Total	Petroleum and Natural Gas Extraction: Crude Petroleum and Natural Gas Fields	Petroleum and Natural Gas Extraction: Field Service Workers	Total Manufacturing	Petroleum Refining
1947	1.47	N.A.	1.40	N.A.	1.22	1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	2.39	2.54	2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94
1981	10.06	9.49	10.81	9.11	7.98	12.17
1982	10.82	10.32	11.94	9.78	8.50	13.30
1983	11.30	10.69	12.38	9.97	8.84	14.33
1984	11.58	10.66	12.78	9.89	9.17	14.57
1985	11.95	11.04	13.31	10.13	9.52	15.25

See notes and sources at end of table

Average Hourly Earnings-Total Mining and Manufacturing vs. Petroleum and Natural Gas Extraction and Petroleum Refining (Annual Average)

Year	Total Mining	Petroleum and Natural Gas Extraction			Total Manufacturing	Petroleum Refining
		Total	Crude Petroleum and Natural Gas Fields	Field Service Workers		
1986	12.45	11.54	13.74	10.25	9.73	15.32
1987	12.45	11.42	14.04	9.98	9.91	15.72
1988	12.69	11.72	14.44	10.19	10.17	16.20
1989	13.14	12.35	15.28	10.66	10.47	16.62
1990	13.65	12.85	16.22	11.07	10.84	17.58

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Number of Employees
Petroleum and Natural Gas Extraction and Petroleum Refining
(Average in Thousands)

	Petroleum and Natural Gas Extraction								
Year	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1947	164.0	NA	189.3	NA	NA	NA	NA	NA	NA
1948	173.6	NA	196.6	NA	NA	NA	NA	NA	NA
1949	173.1	NA	191.6	NA	NA	NA	NA	NA	NA
1950	166.8	NA	185.4	NA	NA	117.6	NA	NA	NA
1951	169.1	NA	198.6	NA	NA	123.8	NA	NA	NA
1952	177.2	NA	201.6	NA	NA	128.4	NA	NA	NA
1953	181.3	NA	206.3	NA	NA	133.2	NA	NA	NA
1954	184.7	NA	203.6	NA	NA	139.1	NA	NA	NA
1955	189.0	NA	201.3	NA	NA	140.8	NA	NA	NA
1956	192.3	NA	200.8	NA	25.9	145.3	NA	NA	NA
1957	194.5	NA	198.9	NA	26.5	149.0	NA	NA	NA
1958	192.4	135.0	190.4	NA	25.7	151.9	NA	439.1	NA
1959	185.4	144.2	181.4	NA	24.3	154.1	NA	449.1	NA
1960	178.2	131.1	177.2	NA	23.1	154.8	NA	460.7	NA
1961	171.3	131.8	168.4	NA	22.2	155.6	NA	464.3	NA
1962	167.6	130.4	160.5	NA	21.6	154.6	NA	480.2	NA
1963	163.8	125.4	153.7	NA	20.7	153.3	NA	493.2	NA
1964	160.4	130.7	149.6	NA	20.0	153.3	NA	507.2	NA
1965	156.6	130.5	148.1	NA	19.5	153.6	NA	521.9	NA
1966	152.5	129.2	148.2	NA	18.9	153.2	NA	538.4	NA
1967	149.7	126.2	147.9	NA	18.7	155.9	NA	565.9	NA
1968	148.1	127.5	150.1	NA	18.5	158.4	NA	585.5	NA
1969	145.8	134.1	144.7	NA	17.9	159.5	NA	606.4	NA
1970	144.2	125.9	153.7	NA	17.6	161.2	NA	613.3	NA
1971	142.5	121.7	152.7	NA	17.3	158.5	NA	619.0	NA
1972	142.7	125.5	152.3	32.6	16.7	160.7	225.2	648.9	1,504.6
1973	142.1	135.6	149.9	32.6	16.8	162.7	220.8	651.4	1,511.9
1974	148.5	156.0	155.4	32.4	17.3	163.2	216.8	590.4	1,480.0
1975	159.5	176.2	154.2	30.3	17.6	161.9	227.5	622.2	1,549.4
1976	165.0	195.3	157.1	30.7	17.7	159.3	232.0	625.8	1,582.9
1977	165.8	211.4	159.5	31.6	18.5	158.8	229.7	628.7	1,604.0
1978	178.2	246.7	164.1	32.3	19.6	163.5	229.4	628.0	1,661.8
1979	193.3	276.0	165.2	32.6	20.1	167.1	225.4	576.9	1,656.6
1980	219.6	333.8	154.8	31.0	21.3	168.0	223.9	560.8	1,713.2
1981	254.3	430.2	172.8	28.9	21.8	174.0	231.5	562.2	1,875.7
1982	266.0	434.5	164.2	25.0	21.3	176.9	222.6	559.0	1,869.5
1983	257.9	333.2	158.2	26.3	20.1	173.5	210.9	556.2	1,736.3
1984	254.3	345.6	151.1	26.7	19.1	173.2	208.3	574.7	1,753.0
1985	247.1	329.4	141.4	26.3	18.7	174.8	205.9	588.5	1,732.1

See notes and sources at end of table

Number of Employees
Petroleum and Natural Gas Extraction and Petroleum Refining
(Average in Thousands)

	Petroleum and Natural Gas Extraction								
Year	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1986	218.6	226.2	131.1	26.1	18.2	167.4	200.5	596.0	1,584.1
Jan.	239.4	312.5	134.3	23.6	18.5	171.6	200.6	582.7	1,683.2
Feb.	235.5	294.2	133.5	23.3	18.2	170.1	200.1	579.9	1,654.8
Mar.	232.2	268.1	133.5	24.4	18.0	167.7	200.1	583.9	1,627.9
Apr.	226.6	239.1	133.1	26.2	18.0	166.2	199.9	587.9	1,597.0
May	221.1	218.0	132.8	27.4	17.9	166.7	200.9	594.1	1,578.9
Jun.	220.4	208.6	133.0	27.6	18.5	167.3	201.6	601.0	1,578.0
Jul.	219.8	205.2	132.5	27.7	18.8	169.9	202.9	604.4	1,581.2
Aug.	212.9	198.9	131.2	28.0	18.6	169.3	203.1	608.4	1,570.4
Sep.	205.2	193.7	129.0	27.6	18.2	163.4	201.0	605.0	1,543.1
Oct.	205.3	192.1	127.7	27.0	18.1	164.4	199.4	600.5	1,534.5
Nov.	203.7	192.4	127.1	26.1	18.0	166.2	198.2	600.4	1,532.1
Dec.	200.6	191.7	125.2	23.9	17.9	165.8	197.9	604.3	1,527.3
1987	199.4	197.0	125.2	26.6	18.8	165.0	197.9	608.0	1,537.9
Jan.	200.7	187.3	126.0	23.1	17.8	164.7	196.6	603.9	1,520.1
Feb.	198.9	184.2	125.7	23.3	17.8	164.0	196.4	600.8	1,511.1
Mar.	198.2	182.4	126.0	24.3	17.9	163.8	195.7	599.8	1,508.1
Apr.	197.4	185.5	125.4	26.0	18.0	163.8	196.1	601.9	1,514.1
May	197.6	188.8	125.4	27.7	18.3	164.2	196.5	608.5	1,527.0
Jun.	199.0	193.1	126.1	28.5	19.0	167.2	197.9	613.6	1,544.4
Jul.	200.6	197.1	126.1	28.2	19.4	168.0	199.0	616.7	1,555.1
Aug.	200.2	202.2	125.8	28.5	19.5	167.6	199.4	615.9	1,559.1
Sep.	199.4	206.5	124.6	28.6	19.4	164.9	198.9	610.3	1,552.6
Oct.	199.9	212.4	124.2	28.3	19.4	164.2	198.7	607.4	1,554.5
Nov.	199.7	212.3	123.9	27.1	19.6	163.6	199.6	607.1	1,552.9
Dec.	200.7	211.6	123.6	25.4	19.9	163.6	200.2	610.6	1,555.6
1988	196.4	199.4	122.3	27.1	18.5	165.1	202.1	626.8	1,557.7
Jan.	198.3	205.5	123.4	24.0	19.6	163.2	199.0	608.7	1,541.7
Feb.	197.5	201.5	121.2	24.0	17.8	162.5	198.8	610.9	1,534.2
Mar.	197.5	201.6	120.4	24.7	17.9	162.4	199.4	613.4	1,537.3
Apr.	196.5	200.8	120.4	27.0	18.0	163.1	199.7	618.0	1,543.5
May	196.4	202.8	122.1	28.1	18.1	164.0	201.0	625.8	1,558.3
Jun.	197.2	203.4	123.2	28.8	18.8	167.5	202.7	632.2	1,573.8
Jul.	198.3	202.7	123.8	28.9	19.1	168.6	204.4	637.1	1,582.9
Aug.	197.6	202.1	123.8	28.9	19.1	168.6	204.5	639.4	1,584.0
Sep.	194.8	198.7	122.7	28.9	18.5	165.4	204.4	634.9	1,568.3
Oct.	194.2	195.4	122.2	28.8	18.3	165.4	203.8	634.1	1,562.2
Nov.	194.4	190.6	122.2	27.8	18.3	165.3	203.4	633.3	1,555.3
Dec.	194.3	187.2	121.8	25.4	18.4	164.8	204.5	634.1	1,550.5

See notes and sources at end of table

Section V
Table 2b

Number of Employees
Petroleum and Natural Gas Extraction and Petroleum Refining
(Average in Thousands)

	Petroleum and Natural Gas Extraction								
Year	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1989	193.0	183.9	122.9	26.7	18.8	167.2	207.8	641.9	1,562.2
Jan.	194.2	180.9	121.4	23.0	18.4	164.8	203.5	631.2	1,537.4
Feb.	192.9	176.3	121.6	22.9	18.3	164.3	205.0	630.7	1,532.0
Mar.	192.8	176.6	121.6	23.7	18.1	164.3	206.8	633.3	1,537.2
Apr.	192.8	178.5	121.6	26.2	18.2	164.9	207.2	637.6	1,547.0
May	192.7	178.9	121.9	28.1	18.4	166.0	208.2	643.3	1,557.5
Jun.	195.6	179.9	123.8	28.8	19.2	169.2	209.7	647.7	1,573.9
Jul.	195.6	183.3	124.3	28.7	19.5	170.6	209.7	649.7	1,581.4
Aug.	194.6	185.7	124.5	28.9	19.5	170.5	210.2	648.9	1,582.8
Sep.	191.9	188.3	123.3	28.9	19.1	167.9	208.5	646.8	1,574.7
Oct.	190.6	190.0	123.4	28.6	19.1	167.8	208.7	646.7	1,574.9
Nov.	190.4	194.4	123.5	27.7	19.1	168.2	207.9	644.2	1,575.4
Dec.	191.5	193.7	123.4	24.5	19.2	168.2	208.4	642.7	1,571.6
1990	191.5	198.1	119.9	27.8	19.7	167.4	212.8	641.0	1,578.2
Jan.	191.6	189.9	123.5	22.9	19.0	167.7	207.6	642.6	1,564.8
Feb.	192.2	188.3	123.7	23.5	19.2	167.5	206.8	637.0	1,558.2
Mar.	191.8	186.0	123.7	24.9	19.3	168.4	206.4	638.1	1,558.6
Apr.	191.6	189.3	123.6	26.8	19.3	168.8	207.3	638.5	1,565.2
May.	192.2	193.4	123.9	28.8	19.3	169.7	208.2	646.9	1,582.4
Jun.	194.0	198.7	120.8	30.1	20.2	169.5	213.6	647.5	1,594.4
Jul.	195.2	201.0	121.3	30.2	20.4	170.6	214.0	650.1	1,602.8
Aug.	193.8	201.5	121.7	30.5	20.5	170.4	214.2	650.1	1,602.7
Sep.	191.5	202.6	120.3	30.4	19.9	167.8	213.7	644.1	1,590.3
Oct.	187.8	206.9	120.2	30.1	19.6	167.7	213.6	638.1	1,584.0
Nov.	187.5	210.4	120.7	28.6	19.6	167.9	214.2	635.4	1,584.3
Dec.	189.1	208.6	121.0	26.0	19.8	167.8	213.8	636.1	1,582.2
1991									
Jan.	189.4	203.6	120.5	23.1	19.4	167.6	212.6	627.5	1,563.7
Feb.	189.3	203.1	120.6	23.1	19.4	167.0	210.5	623.4	1,556.4
Ma[illegible]	189.1	202.0	118.7	23.3	18.3	164.0	194.0	632.2	1,541.6
Ap[illegible]	188.8	201.3	119.3	25.3	18.3	163.7	194.3	633.0	1,544.0
May	190.3	200.3	119.6	26.9	18.6	164.3	194.6	637.4	1,552.0
Jun.	193.2	200.6	121.8	27.5	19.3	167.6	195.2	644.3	1,569.5
Jul.	194.3	199.8	122.1	27.6	19.7	168.1	194.6	647.8	1,574.0
Aug.	193.7	196.2	122.5	27.8	19.5	167.5	194.7	645.8	1,567.7

(a) Total employment by establishment--includes production workers, clerical and white collar employees.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 3

Sources of Capital of a Group of Petroleum Companies
(Millions of dollars)

Year	Internal Funds	External Funds	Total Funds
1947	2,221	682	2,903
1948	3,250	592	3,842
1949	2,971	641	3,612
1950	3,285	159	3,444
1951	3,847	316	4,163
1952	4,092	831	4,923
1953	4,591	520	5,111
1954	4,897	353	5,250
1955	5,429	520	5,949
1956	6,351	1,222	7,573
1957	6,536	1,211	7,747
1958	5,806	970	6,776
1959	6,211	241	6,452
1960	6,401	245	6,646
1961	6,892	649	7,541
1962	7,280	677	7,957
1963	7,710	925	8,635
1964	7,905	990	8,895
1965	8,681	1,196	9,877
1966	10,085	2,032	12,117
1967	10,682	2,791	13,473
1968	11,280	4,015	15,295
1969	11,715	2,998	14,713
1970	14,333	4,156	18,489
1971	15,132	5,059	20,191
1972	16,164	4,632	20,796
1973	23,211	4,786	27,997
1974	32,510	6,232	38,742
1975	23,931	10,129	34,060
1976	28,254	10,310	38,564
1977	33,427	8,678	42,105
1978	38,410	4,930	43,340
1979	62,828	8,568	71,396
1980	70,721	11,900	82,621
1981	64,930	16,585	81,515
1982	67,167	15,430	82,597
1983	66,962	8,707	75,669
1984	61,300	26,100	87,400
1985	89,700	23,200	113,000
1986	76,800	16,000	92,700
1987	76,800	14,600	91,400

SOURCE: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 4

Domestic and Foreign Net Income of a Group of Petroleum Companies
(Millions of Dollars)

Year	Net Income U.S.	Foreign	Total
1960	$1,887	$1,581	$3,468
1961	1,958	1,719	3,677
1962	2,044	1,963	4,007
1963	2,392	2,149	4,541
1964	2,556	2,156	4,712
1965	2,927	2,164	5,091
1966	3,438	2,214	5,652
1967	3,727	2,421	6,148
1968	3,913	2,751	6,664
1969	3,774	2,928	6,702
1970	3,609	3,029	6,638
1971	3,372	3,753	7,125
1972	3,526	3,155	6,681
1973	4,008	7,396	11,404
1974	6,119	9,931	16,050
1975	5,623	5,530	11,153
1976	7,165	5,462	12,627
1977	7,420	6,565	13,985
1978	7,968	6,582	14,550
1979	12,237	18,383	30,620
1980	15,073	19,047	34,120
1981	15,916	12,537	28,453
1982	12,831	8,431	21,262
1983	9,573	10,465	20,038
1984	9,191	10,874	20,065
1985	8,289	10,410	18,699
1986	N.A.	N.A.	15,200
1987	N.A.	N.A.	15,200

SOURCE: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

World Petroleum Industry Capital and Exploration Expenditures
United States versus Foreign
(Millions of U.S. dollars)

	Capital Expenditures			Geological & Geophysical Expenses & Lease Rentals			Combined		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1947	2,825	1,225	4,050	250	70	320	3,075	1,295	4,370
1948	3,350	1,600	4,950	300	100	400	3,650	1,700	5,350
1949	3,000	1,925	4,925	325	100	425	3,325	2,025	5,350
1950	2,925	1,500	4,425	300	125	425	3,225	1,625	4,850
1951	3,625	1,700	5,325	400	150	550	4,025	1,850	5,875
1952	4,400	2,350	6,750	500	175	675	4,900	2,525	7,425
1953	5,025	2,550	7,575	575	175	750	5,600	2,725	8,325
1954	5,350	2,725	8,075	600	200	800	5,950	2,925	8,875
1955	5,600	2,950	8,550	625	250	875	6,225	3,200	9,425
1956	6,050	3,975	10,025	700	300	1,000	6,750	4,275	11,025
1957	6,400	5,000	11,400	700	375	1,075	7,100	5,375	12,475
1958	5,300	5,400	10,700	650	400	1,050	5,950	5,800	11,750
1959	5,275	5,775	11,050	650	470	1,120	5,925	6,245	12,170
1960	5,175	5,350	10,525	625	460	1,085	5,800	5,810	11,610
1961	5,100	5,325	10,425	600	420	1,020	5,700	5,745	11,445
1962	5,725	5,385	11,110	575	425	1,000	6,300	5,800	12,100
1963	5,475	5,675	11,150	600	450	1,050	6,075	6,125	12,200
1964	6,100	6,175	12,275	650	480	1,130	6,750	6,655	13,405
1965	6,375	6,800	13,175	610	570	1,180	6,985	7,370	14,355
1966	7,125	7,550	14,675	650	460	1,110	7,775	8,010	15,785
1967	7,650	7,925	15,575	615	575	1,190	8,265	8,500	16,765
1968	8,350	9,550	17,900	715	615	1,330	9,065	10,165	19,230
1969	8,175	10,200	18,375	725	655	1,380	8,900	10,855	19,755
1970	8,225	11,900	20,125	665	675	1,340	8,890	12,575	21,465
1971	7,250	14,550	21,800	715	680	1,395	7,965	15,230	23,195
1972	9,050	15,900	24,950	740	800	1,540	9,790	16,700	26,490
1973	10,640	19,355	29,995	850	850	1,700	11,490	20,205	31,695
1974	16,625	27,075	43,700	1,130	1,055	2,185	17,755	28,130	45,885
1975	17,725	31,900	49,625	1,195	1,130	2,325	18,920	33,030	51,950
1976	22,085	34,640	56,725	1,375	1,160	2,535	23,460	35,800	59,260
1977	22,400	39,180	61,580	1,645	1,750	3,395	24,045	40,930	64,975
1978	24,475	43,900	68,375	1,975	2,060	4,035	26,450	45,960	72,410
1979	32,200	49,425	81,625	2,600	2,725	5,325	34,800	52,150	86,950
1980	42,900	62,625	105,525	3,850	3,775	7,625	46,750	66,400	113,150
1981	63,000	75,600	138,600	5,700	4,900	10,600	68,700	80,500	149,200
1982	63,550	75,875	139,425	4,500	5,100	9,600	68,050	80,975	149,025
1983	45,600	66,175	111,775	4,250	4,175	8,425	49,850	70,350	120,200
1984	45,850	60,925	106,775	4,075	4,300	8,375	49,925	65,225	115,150

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Sources and Uses of Working Capital of a Group of Petroleum Companies
(Million dollars)

	Funds Available From					Funds Used For				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other(a)	Total	Capital Expenditure	Dividends	Long Term Debt Repaid	Other(b)	Total
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,231
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860
1971	14,389	5,059	(c)	743	20,191	12,511	3,836	2,029	972	19,348
1972	14,377	4,632	(c)	1,787	20,796	12,717	3,774	3,258	751	20,500
1973	20,623	4,786	(c)	2,588	27,997	14,247	4,056	4,023	381	22,707
1974	28,165	6,232	(c)	4,345	38,742	22,270	4,681	4,262	894	32,107
1975	22,714	10,129	(c)	1,217	34,060	24,205	4,819	5,316	1,740	36,080
1976	25,828	10,310	(c)	2,426	38,564	26,036	5,208	5,230	829	37,303
1977	29,003	8,678	(c)	4,424	42,105	27,156	5,995	5,954	1,508	40,613
1978	33,184	4,930	(c)	5,226	43,340	28,770	6,781	6,885	1,562	43,998
1979	55,844	8,568	(c)	6,984	71,396	42,229	8,127	8,249	2,473	61,078
1980	64,859	11,900	(c)	5,862	82,621	53,776	10,305	9,728	2,613	76,422
1981	63,207	16,585	(c)	1,723	81,515	63,976	11,068	10,020	4,867	89,931
1982	60,884	14,980	450	6,283	82,597	64,538	11,265	10,485	3,731	90,019
1983	60,256	8,407	300	6,706	75,669	49,521	11,057	7,524	4,507	72,609
1984	57,200	24,900	1,200	4,100	87,400	44,300	10,600	7,000	35,000	96,900
1985	70,200	22,700	500	19,500	113,000	49,800	12,500	27,100	26,800	116,100
1986	54,100	14,800	1,200	22,700	92,700	35,000	13,000	19,000	14,200	81,200
1987	57,800	11,400	3,200	19,000	91,400	36,700	13,100	14,600	25,100	89,800

(a) Other includes sales of assets and other transactions and_ in 1984-85 includes mergers and acquisitions.
(b) Other includes investments and advancements and preferred and common stock retired.
(c) Included in Long Term Debt Issued.

SOURCE: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

Section V
Table 7

Domestic and Foreign Capital Expenditures of the World Petroleum Industry
(Million dollars)

Year	Production		Transportation		Refineries & Chemical Plants		Marketing		Other Capital Expenditures		Total Capital Expenditures	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
1947	1,750	475	295	310	400	225	300	175	80	40	2,825	1,225
1948	2,100	685	310	255	600	405	225	165	115	90	3,350	1,600
1949	2,000	770	250	405	420	475	240	215	90	60	3,000	1,925
1950	2,100	475	215	430	275	375	275	180	60	40	2,925	1,500
1951	2,650	575	285	410	325	400	300	245	65	70	3,625	1,700
1952	3,200	890	385	505	470	490	280	375	65	90	4,400	2,350
1953	3,525	890	425	610	675	620	325	360	75	70	5,025	2,550
1954	3,800	970	325	740	800	585	350	385	75	45	5,350	2,725
1955	4,100	1,110	225	655	835	580	375	535	65	70	5,600	2,950
1956	4,475	1,725	225	775	825	725	450	685	75	65	6,050	3,975
1957	4,525	2,180	345	1,060	950	980	475	710	105	70	6,400	5,000
1958	3,650	1,925	350	1,520	725	1,045	400	745	175	165	5,300	5,400
1959	3,850	2,030	260	1,720	525	1,020	450	885	190	120	5,275	5,775
1960	3,735	1,875	265	1,395	560	1,030	475	950	140	100	5,175	5,350
1961	3,525	1,855	230	1,140	685	1,265	525	930	135	135	5,100	5,325
1962	4,000	1,665	340	1,205	660	1,415	600	985	125	105	5,725	5,375
1963	3,650	1,520	415	1,155	600	1,765	650	1,085	160	150	5,475	5,675
1964	3,960	1,605	340	1,570	675	1,515	850	1,340	275	145	6,100	6,175
1965	3,760	2,025	265	1,510	1,125	1,665	1,000	1,430	225	170	6,375	6,800
1966	3,770	1,870	300	1,755	1,575	2,435	1,100	1,310	380	180	7,125	7,550
1967	4,025	1,975	400	1,740	1,600	2,550	1,250	1,455	375	205	7,650	7,925
1968	4,925	2,535	475	2,280	1,450	2,980	1,150	1,515	350	240	8,350	9,550
1969	4,750	2,790	400	2,600	1,525	2,995	1,250	1,555	250	260	8,175	10,200
1970	4,335	2,895	550	2,915	1,625	3,900	1,450	1,770	265	420	8,225	11,900
1971	3,385	3,830	675	3,435	1,550	4,740	1,350	2,030	290	515	7,250	14,550
1972	5,915	4,190	425	4,580	1,350	4,955	1,100	1,725	260	450	9,050	15.900
1973	7,440	5,485	550	7,230	1,475	4,565	850	1,630	325	445	10,640	19,355
1974	11,450	8,085	1,600	9,760	2,600	7,115	650	1,565	325	550	16,625	27,075
1975	9,380	9,875	3,725	11,510	3,600	8,270	650	1,510	370	735	17,725	31,900
1976	13,460	12,315	3,900	12,350	3,775	7,635	625	1,555	325	785	22,085	34,640
1977	15,180	17,280	2,300	8,060	3,700	10,965	775	1,895	445	980	22,400	39,180
1978	17,650	20,055	1,350	7,380	4,050	13,275	950	2,290	475	900	24,475	43,900
1979	24,600	24,465	1,450	6,575	4,625	14,385	975	2,775	550	1,225	32,200	49,425
1980	33,100	33,775	2,150	7,725	5,650	16,125	1,300	3,750	700	1,250	42,900	62,625
1981	51,700	41,675	1,725	10,300	7,250	18,325	1,425	3,775	900	1,525	63,000	75,600
1982	52,275	43,400	1,300	7,650	7,550	19,525	1,400	3,700	1,025	1,600	63,550	75,875
1983	37,275	36,575	1,000	7,725	5,100	17,075	1,375	3,300	850	1,500	45,600	66,175
1984	38,050	34,650	975	5,925	4,200	15,700	1,900	3,275	725	1,375	45,850	60,925

SOURCE: *The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry*

Section V
Table 8

Estimated U.S. Exploration & Development Expenditures Chase Manhattan Bank Group and all Other Companies (Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1947	1,950	991	959
1948	2,300	1,318	982
1949	2,215	1,217	998
1950	2,325	1,157	1,168
1951	2,975	1,620	1,355
1952	3,625	1,855	1,770
1953	3,975	2,014	1,961
1954	4,300	2,180	2,120
1955	4,675	2,383	2,292
1956	5,075	2,621	2,454
1957	5,100	2,673	2,427
1958	4,225	2,241	1,984
1959	4,350	2,455	1,895
1960	4,200	2,412	1,788
1961	4,000	2,417	1,583
1962	4,425	2,848	1,577
1963	4,125	2,452	1,673
1964	4,450	2,817	1,633
1965	4,210	2,847	1,363
1966	4,250	2,990	1,260
1967	4,365	3,212	1,153
1968	5,390	4,087	1,303
1969	5,250	3,768	1,482
1970	4,775	3,119	1,656
1971	3,900	2,740	1,160
1972	6,480	4,225	2,255
1973	8,140	5,275	2,865
1974	12,355	8,550	3,805
1975	10,250	7,007	3,243
1976	14,510	8,711	5,799
1977	16,500	10,159	6,341
1978	19,300	11,378	7,922
1979	26,750	20,616	6,134
1980	36,200	25,053	11,147
1981	56,475	32,765	23,710
1982	55,400	30,902	24,498
1983	40,875	25,537	15,338
1984	41,450	23,010	18,440

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

Section V
Table 9

U.S. Estimated Expenditures for Exploration Development and Production, Million Dollars(a)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Exploration Expenditures											
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2	8,678.6	13,545.7	12,935.8	7,045.0
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2,579.5	2,885.4	7,036.5	7,899.2	11,188.2	8,163.3	8,052.0
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5	274.7	376.2	458.0	317.0
Geological and geophysical	399.5	567.6	652.8	692.3	833.3	1,028.7	1,218.2	1,871.0	2,823.0	2,997.5	2,540.0
Lease rental	150.7	177.8	204.7	206.7	245.8	285.3	311.6	429.1	600.4	643.7	586.0
Test Hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0	28.0	34.2	47.2	49.0
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5	757.4	999.0	1,192.0	NA
General and administrative	203.6	290.9	341.7	404.8	413.5	488.8	661.7	892.8	1,107.5	1,420.8	2,491.0
TOTAL EXPLORATION(c)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2	20,830.8	30,674.2	27,858.3	21,080.0
Development Expenditures											
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5	10,193.4	16,107.5	15,578.0	18,340.0
Lease equipment	572.2	824.1	1,499.6	1,486.8	1,607.9	2,175.0	2,146.0	3,572.8	4,760.3	5,134.6	3,698.0
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3	3,414.6	972.6	1,511.5	NA
Improved recovery programs	352.5	625.4	928.9	378.4	461.4	639.3	528.3	941.2	1,458.2	1,943.8	1,062.0
Other, incl. direct overhead	(b)	(b)	(b)	978.9	672.3	467.5	544.3	712.5	801.6	740.2	NA
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2	744.4	915.6	950.7	2,068.0
TOTAL DEVELOPMENT(c)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6	19,578.9	25,015.7	25,858.8	25,168.0
Producing Expenditures											
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,507.4	5,277.9	6,152.2	7,295.3	9,461.9	13,505.1	14,405.3	14,457.0
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4	4,564.9	6,638.6	6,605.8	16,860.0
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1,181.3	1,709.8	2,244.8	3,047.8	NA
Other indirect expenses	193.5	252.1	358.0	369.1	435.6	393.6	538.6	6,508.7	20,557.5 (f)	14,008.3 (f)	4,358.0
TOTAL PRODUCTION(c)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6	22,245.2	42,945.8	38,067.2	35,675.0
TOTAL EXPENDITURES(c)	12,694.2	18,706.1	18,558.7	22,558.7	25,725.1	30,373.2	44,686.4	62,655.0	98,635.7	91,784.3	81,923.0

See notes and sources at end of table

U.S. Estimated Expenditures for Exploration Development and Production, Million Dollars(a)

	1984	1985	1986	1987	1988	1989	1990(g)
Exploration Expenditures							
Drilling and equipping wells	7,363.0	6,297.0	3,048.0	2,373.0	3,054.0	2,596.0	NA
Acquiring undeveloped acreage	7,807.0	4,040.0	1,335.0	1,685.0	3,053.0	1,759.0	1,713.0
Land dept. leasing and scouting	379.0	381.0	301.0	228.0	232.0	237.0	297.0
Geological and geophysical	2,619.0	2,392.0	1,244.0	1,194.0	1,276.0	955.0	1,046.0
Lease rental	536.0	541.0	383.0	289.0	267.0	263.0	260.0
Test Hole contributions	75.0	16.0	125.0	4.0	7.0	15.0	7.0
Other, incl. direct overhead	NA	NA	NA	NA	NA	NA	NA
General and administrative	(d) 2,719.0	(d) 2,732.0	(d) 2,060.0	(d) 1,826.0	(d) 1,871.0	(d) 1,677.0	(d) 1,394.0
TOTAL EXPLORATION(c)	21,498.0	16,399.0	8,496.0	7,599.0	9,760.0	7,502.0	7,256.0
Development Expenditures							
Drilling and equipping wells	18,693.0	17,411.0	9,257.0	7,362.0	8,002.0	8,279.0	NA
Lease equipment	4,495.0	5,029.0	3,526.0	2,305.0	2,706.0	2,776.0	2,599.0
Acquiring producing acreage	NA	NA	NA	NA	NA	NA	NA
Improved recovery programs	1,239.0	1,822.0	1,140.0	753.0	1,047.0	920.0	974.0
Other, incl. direct overhead	NA	NA	NA	NA	NA	NA	NA
General and administrative	(d) 2,129.0	(d) 2,974.0	(d) 2,457.0	(d) 1,744.0	(d) 2,442.0	(d) 1,875.0	(d) 1,738.0
TOTAL DEVELOPMENT(c)	26,556.0	27,236.0	16,380.0	12,164.0	14,197.0	13,850.0	13,702.0
Producing Expenditures							
Direct operating expenditures	14,829.0	18,233.0	14,720.0	13,592.0	15,131.0	14,904.0	15,473.0
Taxes, excl. income tax	14,895.0	11,426.0	4,317.0	3,941.0	4,040.0	4,258.0	5,035.0
General and administrative	NA	NA	NA	NA	NA	NA	NA
Other indirect expenses	(e) 4,187.0	(e) 4,490.0	(e) 4,488.0	(e) 4,550.0	(e) 4,182.0	(e) 4,580.0	(e) 3,688.0
TOTAL PRODUCTION(c)	33,911.0	34,149.0	23,525.0	22,083.0	23,353.0	23,742.0	24,196.0
TOTAL EXPENDITURES(c)	81,965.0	77,784.0	48,401.0	41,846.0	47,310.0	45,094.0	45,154.0

(a) Data not available prior to 1973
(b) Included in improved recovery programs before 1976
(c) Totals do not add due to rounding
(d) Includes Other, including direct overhead.
(e) Includes general and administrative.
(f) Includes Federal Excise taxes.
(g) Work-in-progress not reflected in 1990 totals.

SOURCE: 1973-1982: U.S. Department of Commerce, Bureau of Census, Annual Survey of Oil and Gas.
1983-1989: American Petroleum Institute, Survey of Oil and Gas Expenditures, Annual.

Environmental Protection Expenditures of the Petroleum Industry within the U.S.(a)
(Millions of Dollars)

Year	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL EXPENDITURES																	
1. Air..............	$125	$167	$187	$231	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$2,184	$2,311	$2,553
2. Water............	146	191	205	224	303	415	379	402	530	629	822	950	884	1001	1299	1786	1705
3. Land and other..	-	-	-	-	60	101	91	100	150	456	336	383	194	203	357	516	551
TOTAL...........	$271	$358	$392	$455	$683	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$3,840	$4,613	$4,809
CAPITAL EXPENDITURES																	
1. Air..............	$69	$100	$112	$145	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$728	$711	$932
2. Water............	79	114	128	136	163	224	184	194	271	356	411	434	340	394	527	804	745
3. Land and other..	-	-	-	-	34	57	51	52	97	396	269	184	89	92	183	273	282
TOTAL...........	$148	$214	$240	$281	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$1,438	$1,788	$1,959
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES																	
1. Air..............	$43	$50	$53	$62	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$1,392	$1,538	$1,554
2. Water............	57	66	75	84	136	185	187	201	249	262	401	502	532	594	754	960	933
3. Land and other..	-	-	-	-	24	41	37	43	50	55	63	197	101	106	165	231	248
TOTAL...........	$100	$116	$128	$146	$268	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$2,311	$2,729	$2,735
RESEARCH AND DEVELOPMENT EXPENDITURES																	
1. Air..............	$13	$17	$22	$24	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$64	$62	$67
2. Water............	10	11	2	4	4	6	8	7	10	11	10	14	12	13	18	22	27
3. Land and other..	-	-	-	-	2	3	3	5	3	5	4	2	4	5	9	12	21
TOTAL...........	$23	$28	$24	$28	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$91	$96	$115

See notes and sources at end of table

Section V
Table 10a

Environmental Protection Expenditures of the Petroleum Industry within the U.S.(a) (Millions of Dollars)

Year	1983	1984
TOTAL EXPENDITURES		
1. Air	$2,014	$1,870
2. Water	1552	1572
3. Land and other	439	504
TOTAL	$4,005	$3,946
CAPITAL EXPENDITURES		
1. Air	$497	$420
2. Water	627	595
3. Land and other	178	211
TOTAL	$1,302	$1,226
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES		
1. Air	$1,457	$1,395
2. Water	901	953
3. Land and other	243	278
TOTAL	$2,601	$2,626
RESEARCH AND DEVELOPMENT EXPENDITURES		
1. Air	$60	$55
2. Water	24	24
3. Land and other	18	15
TOTAL	$102	$94

(a) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

SOURCE: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry

Section V
Table 11

Summary Financial Data for Leading U.S. Oil Companies
(Millions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total Revenue	57,313.5	62,882.9	68,127.1	75,756.7	82,377.0	102,966.5	182,073.9	189,267.0	214,128.3	240,036.2	261,200.9	344,365.7	454,762.4
Deductions:													
Payroll and Benefits	6,070.5	6,593.7	7,074.6	8,041.7	8,646.0	9,206.2	10,607.6	12,416.0	13,294.0	14,729.4	16,705.3	20,040.5	24,653.4
Depreciation Depletion and Amortization	3,906.5	4,178.8	4,570.3	4,899.0	5,169.7	5,729.5	6,675.6	7,537.0	7,540.0	8,581.5	10,101.9	11,773.6	13,937.7
Interest	717.7	931.8	1,076.6	1,195.5	1,276.0	1,390.1	1,601.3	1,638.0	1,926.4	2,645.3	3,058.8	3,439.2	3,655.7
Other Costs and Expenses	32,818.1	36,591.1	39,784.7	43,440.6	47,752.5	59,507.7	121,381.0	128,446.5	152,502.3	170,752.2	184,396.3	246,987.3	328,278.4
Total Taxes	8,304.3	9,070.0	10,335.5	12,373.9	13,800.9	18,168.0	29,249.0	29,911.3	28,029.6	31,983.2	34,718.2	41,561.0	58,388.2
Total Deductions	51,817.1	57,365.4	62,841.7	69,950.7	76,645.1	94,001.5	169,514.6	179,948.8	203,292.7	228,691.6	248,980.5	323,801.6	428,913.4
Net Income	$5,501.8	$5,337.3	$5,482.6	$5,614.5	$5,476.1	$8,992.1	$12,503.4	$9,315.6	$10,853.4	$11,326.1	$12,230.2	$20,573.0	$25,853.6

See notes and sources at end of table

Section V
Table 11a

Summary Financial Data for Leading U.S. Oil Companies
(Millions of Dollars)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Revenue	504,581.8	459,725.3	418,546.9	403,797.8	391,934.1	287,026.6	314,697.9	325,670.4	348,279.9	412,278.2
Deductions:										
Payroll and Benefits	27,061.5	28,391.1	28,227.2	27,648.4	27,106.5	22,747.8	22,324.1	23,164.5	24,297.6	25,856.3
Depreciation Depletion and Amortization	16,714.9	19,080.4	20,753.2	22,555.7	23,877.2	23,961.5	23,074.4	23,769.6	23,456.7	24,653.7
Interest	4,858.7	4,853.5	4,978.0	6,839.9	8,520.4	8,342.8	7,798.9	8,077.4	8,266.8	8,216.6
Other Costs and Expenses	367,294.4	335,199.5	293,709.5	281,233.8	272,289.4	196,647.4	217,583.2	215,346.3	238,914.7	291,166.7
Total Taxes	64,446.5	53,932.9	51,841.0	49,168.3	46,701.0	30,671.9	35,560.2	38,630.5	38,839.3	46,340.4
Total Deductions	480,376.0	441,457.4	399,508.9	387,446.1	378,494.6	282,371.4	306,912.8	308,988.3	333,775.1	396,233.7
Net Income	$24,205.8	$18,303.4	$19,150.6	$16,351.7	$13,680.5	$4,718.8	$7,912.5	$18,770.1	$14,936.8	16677.9

Effective November 1, 1988, the domestic oil and gas exploration and production business of Sun Company was distributed to the common shareholders of the company. As a result of the distribution, Sun and Sun Exploration and Production (renamed Oryx Energy) became separate and independent companies.

The companies included in current sample are:

Amerada Hess Corporation, Amoco Corporation, Ashland Oil Inc., Atlantic Richfield Co., Chevron Corporation, Diamond Shamrock Corp., Exxon Corporation, FINA, Inc., Kerr-McGee Corporation, Maxus Energy, Mobil Corporation, Murphy Oil Corporation, Occidental Petroleum Corp., Oryx Energy, Pennzoil Company, Phillips Petroleum Corp., Shell Oil Company, Sun Company Inc., Texaco, Inc., Unocal Corporation

SOURCE: Financial Trends of Leading U.S. Oil Companies, 1968-1990 API Discussion Paper #017, November 1991

Section V
Table 12

Capital Expenditures of Leading United States Oil Companies
(Billions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total																	
U.S.	6.2	6.2	6.2	5.7	6.2	7.3	12.8	13.6	15.4	16.0	16.0	20.5	27.6	39.4	35.4	28.4	30.3
World	9.6	9.7	9.6	9.7	10.1	12.0	18.9	20.1	21.3	22.5	24.0	30.6	40.7	53.5	49.8	40.2	41.0
Exploration & Production																	
U.S.	3.2	3.0	2.7	2.4	3.2	4.2	7.7	6.5	8.0	8.4	9.1	13.1	17.5	26.3	22.5	18.9	21.7
World	4.8	4.5	3.9	3.7	4.7	6.0	10.7	10.2	11.5	12.7	14.7	19.8	26.1	35.0	32.1	26.7	28.8
Refining Marketing Transportation																	
U.S.	1.9	2.2	2.6	2.6	2.2	2.0	3.2	4.7	4.2	3.0	2.9	3.5	4.3	6.4	6.1	5.1	4.9
World	3.4	4.0	4.6	5.0	4.3	4.8	6.0	7.1	6.1	4.9	4.7	5.9	7.5	9.6	8.8	7.0	6.7
Total Petroleum																	
U.S.	5.1	5.2	5.3	5.0	5.4	6.2	10.9	11.2	12.2	11.4	12.0	16.6	21.8	32.7	28.6	24.0	26.6
World	8.2	8.5	8.5	8.7	9.0	10.8	16.7	17.3	17.6	17.6	19.4	25.7	33.6	44.6	40.9	33.7	35.5
Chemicals																	
U.S.	0.6	0.5	0.5	0.3	0.4	0.4	0.9	1.4	2.1	2.6	2.2	2.0	2.5	2.6	2.0	1.1	1.0
World	0.8	0.6	0.6	0.5	0.5	0.5	1.1	1.6	2.4	2.7	2.3	2.0	2.5	2.6	2.0	1.7	1.4
Petroleum & Chemicals																	
U.S.	5.7	5.7	5.8	5.3	5.8	6.6	11.8	12.6	14.3	14.0	14.2	18.6	24.3	35.3	30.6	25.1	27.6
World	9.0	9.1	9.1	9.2	9.5	11.3	17.8	18.9	20.0	20.3	21.8	28.0	36.5	48.1	43.9	35.4	36.9
Other Energy																	
U.S.	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.6	0.9	0.9	0.9	1.4	1.6	2.3	1.0	1.0
World	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.7	1.0	1.0	1.3	1.9	2.4	3.0	2.1	1.6
Total Energy																	
U.S.	5.9	5.9	6.0	5.5	6.0	6.8	12.3	13.2	14.9	14.9	15.1	19.5	25.7	36.9	32.9	26.1	28.6
World	9.2	9.3	9.3	9.4	9.7	11.5	18.4	19.6	20.7	21.3	22.8	29.3	38.4	50.5	46.9	37.6	38.5
Other																	
U.S.	0.3	0.3	0.2	0.2	0.2	0.5	0.5	0.4	0.5	1.1	0.9	1.0	1.9	2.5	2.5	2.3	1.7
World	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.6	1.2	1.2	1.3	2.3	3.0	2.9	2.7	2.5

See notes and sources at end of table

Section V
Table 12a

Capital Expenditures of Leading United States Oil Companies
(Billions of Dollars)

	1985	1986	1987	1988	1989
Total					
U.S.	28.1	17.6	17.0	24.0	20.5
World	39.4	25.4	25.8	33.9	30.4
Exploration & Production					
U.S.	19.8	10.5	9.6	14.8	10.7
World	27.3	15.5	15.7	21.2	16.6
Refining Marketing Transportation					
U.S.	4.6	3.9	4.1	5.4	5.0
World	6.6	5.4	5.8	7.6	7.5
Total Petroleum					
U.S.	24.4	14.4	13.7	20.2	15.7
World	33.9	20.9	21.5	28.8	24.1
Chemicals					
U.S.	1.3	1.2	1.2	1.9	2.9
World	1.5	1.5	1.6	2.7	3.5
Petroleum & Chemicals					
U.S.	25.7	15.6	14.9	22.1	18.6
World	35.4	22.4	23.1	31.5	27.6
Other Energy					
U.S.	0.6	0.5	0.5	0.5	0.4
World	1.6	1.2	0.9	0.8	1.0
Total Energy					
U.S.	26.3	16.1	15.4	22.6	19.0
World	37.0	23.6	24.0	32.3	28.6
Other					
U.S.	1.8	1.5	1.6	1.4	1.5
World	2.4	1.8	1.8	1.6	1.8

SOURCE: 1968-1979: API, Financial Trends of Leading U.S. Oil Companies 1968-1983, Discussion Paper #017, October 1984.
1980-1987: API, Financial Trends of Leading U.S. Oil Companies 1968-1987, Discussion Paper #017
1988-1989: API, Capital Expenditures of 21 Lcading U.S. Oil Companies 1968-1989.

Section V
Table 13

Net Income as a Percent of Stockholders' Equity
Oil and Non-Oil Companies

Year	API-Sample Companies(a)	Non-Petroleum Manufacturing(b)
1968	12.5	14.7
1969	11.4	13.8
1970	10.9	10.0
1971	10.6	11.0
1972	9.9	12.8
1973	15.1	14.5
1974	18.7	13.2
1975	12.8	11.6
1976	13.9	14.0
1977	13.3	14.1
1978	13.3	14.8
1979	20.0	15.1
1980	21.7	12.2
1981	17.8	12.9
1982	12.5	9.7
1983	12.4	12.3
1984	11.0	13.9
1985	10.3	10.7
1986	3.7	11.1
1987	6.2	14.5
1988	14.9	16.4
1989	11.4	14.7
1990	12.6	11.9
Median	12.5	13.2

(a) Net income as a percent of average stockholders' equity
(b) Net income as a percent of average stockholders' equity. Calculations based on Standard & Poor's Compustat data base, All Industrial Aggregate excluding non-manufacturing (e.g. retail) and petroleum industry sectors.
More than 1,500 companies are included in this sample.

Effective November 1, 1988 the domestic oil and gas exploration and production business of Sun Company was distributed to the common shareholders of the company. As a result of the distribution, Sun and Sun Exploration and Production (renamed Oryx Energy) became separate and independent companies. The companies included in current sample are:

Amerada Hess Corporation, Amoco Corp., Ashland Oil, Inc., Atlantic Richfield Co., Chevron Corp., Diamond Shamrock Corp., Exxon Corporation, FINA, Inc. Kerr-McGee Corp., Maxus Energy, Mobil Corp., Murphy Oil Corp., Occidental Petroleum, Oryx Energy, Pennzoil Company, Phillips Petroleum Corp., Shell Oil Company, Sun Company Inc., Texaco Inc., Unocal Corporation

SOURCE: API, Financial Trends of Leading U.S. Oil Companies 1968-1990, Discussion Paper #017R, November 1991.

Section V
Table 14

Windfall Profits Tax
(Millions of Dollars)

Quarter Ending	Tax Before Adjustments	Total Adjustments(a)	Tax After Adjustments
Mar. 1980(b)	788	—	788
June 1980	2,842	-21	2,821
Sept 1980	3,413	-88	3,325
Dec. 1980	3,918	-927	2,991
Mar. 1981	6,953	242	7,195
June 1981	7,253	-107	7,146
Sept 1981	6,344	-251	6,093
Dec. 1981	6,007	-497	5,510
Mar. 1982	5,222	-221	5,001
June 1982	4,283	-295	3,988
Sept 1982	4,404	-445	3,959
Dec. 1982	4,440	-634	3,806
Mar. 1983	3,320	-193	3,127
June 1983	2,951	-203	2,748
Sept 1983	2,822	-300	2,522
Dec. 1983	2,736	-465	2,271
Mar. 1984	2,622	-228	2,394
June 1984	2,468	-218	2,250
Sept 1984	2,447	-200	2,247
Dec. 1984	2,236	-256	1,980
Mar. 1985	1,850	-117	1,733
June 1985	1,653	-132	1,521
Sept 1985	1,442	-146	1,296
Dec. 1985	1,254	-256	998
TOTAL	83,668	-5,958	77,710

(a) Adjustments were made because of errors by withholding agents during previous quarters or more frequently, because of application of the net income limitation.

(b) One month only.

SOURCE: U.S. Treasury Department, Internal Revenue Service, SOI Bulletin.

United States Merchandise Trade Value
(Billions of Dollars)

	Exports (a)			Imports (b)			Trade Balance	
Year	Oil	Total	Oil as % of Total	Oil	Total	Oil as % of Total	Oil	Total
1974	0.792	98.092	0.8	26.073	102.559	25.4	-25.281	-4.467
1975	0.907	107.652	0.8	26.664	98.503	27.1	-25.757	9.149
1976	0.998	115.223	0.9	34.614	123.477	28.0	-33.616	-8.254
1977	1.276	121.232	1.1	44.071	150.390	29.3	-42.795	-29.158
1978	1.561	143.681	1.1	42.188	174.757	24.1	-40.627	-31.076
1979	1.914	161.860	1.1	59.805	209.458	28.6	-57.891	-27.599
1980	2.833	220.626	1.3	78.637	244.871	32.1	-75.804	-24.244
1981	3.696	233.677	1.6	76.659	260.982	29.4	-72.963	-27.305
1982	5.947	212.193	2.8	60.458	243.952	24.8	-54.511	-31.759
1983	4.557	200.486	2.3	53.217	258.048	20.6	-48.660	-57.562
1984	4.470	217.865	2.1	56.924	325.726	17.5	-52.454	-107.861
1985	4.707	213.133	2.2	50.475	345.276	14.6	-45.768	-132.143
1986	3.640	226.808	1.6	35.142	366.063	9.6	-31.502	-139.255
1987	2.837	252.866	1.1	42.285	405.901	10.4	-39.448	-153.035
1988	3.692	321.813	1.1	38.787	441.574	8.8	-35.095	-119.761
1989	4.940	363.812	1.4	49.624	473.211	10.5	-44.684	-109.399
1990	4.419	394.045	1.1	60.747	495.042	12.3	-56.328	-100.997

(a) Exports are on an f.a.s. (free alongside ship) basis.
(b) Imports are on an f.a.s. basis through 1980. Beginning in 1981, they are on a customs value basis.

SOURCE: U.S. Department of Commerce, Bureau of Census, FT 135 and FT 410

Section V
Table 16

Oil Finding and Development Costs
(Dollars per Barrel)

Year	U.S.	Foreign	Worldwide
1978	6.64	4.15	5.14
1979	11.74	6.66	9.78
1980	10.57	6.17	8.46
1981	11.68	5.59	8.53
1982	9.86	8.66	9.44
1983	9.08	5.25	7.20
1984	6.80	3.94	5.60
1985	9.41	5.34	7.48
1986	6.53	4.57	5.52
1987	4.02	3.25	3.58
1988	5.05	4.40	4.69
1989	4.89	4.31	4.55
1990	4.99	3.97	4.35

SOURCE: PETROLEUM OUTLOOK by John S. Herold,Inc., 5 Edgewood Avenue, Greenwich, Ct. 06830.

Domestic Outlays for Petroleum Property Acquisitions and Exploration and Development Activities For 30 Large Energy Companies (In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$541	$410	$344	$398	$337	$135	$169	$257	$1,177	$367
Amoco Corp.	2,869	2,327	2,472	2,827	3,407	1,830	1,815	2,648	1,222	1,235
Anadarko Petroleum	246	242	175	162	144	116	103	142	175	152
Atlantic Richfield	2,328	2,856	2,286	2,654	2,771	1,062	676	1,657	1,137	1,291
British Petroleum	NA	2,637	2,263	2,184	2,047	1,316	732	833	791	940
Burlington Resources	207	417	79	215	303	96	95	388	442	775
Chevron Corp.	4,431	3,367	2,467	2,688	1,806	962	911	3,530	970	1,123
Coastal	120	75	33	109	121	52	43	44	68	123
Consolidated Nat. Gas	163	178	218	272	332	166	222	238	341	156
DuPont (Conoco)	444	812	673	805	849	446	437	779	620	677
Enron	256	345	240	362	187	88	87	146	204	266
Enserch	151	141	148	236	254	142	148	136	265	131
Exxon	4,147	4,043	3,463	4,116	4,396	1,947	1,691	1,948	2,055	1,442
Kerr-McGee	270	325	214	186	257	86	75	185	107	180
Louisiana Land	681	479	275	276	236	105	87	134	97	126
Maxus Energy Corp.	524	601	156	188	255	107	113	99	98	123
Mesa	628	497	277	661	113	24	54	841	43	42
Mobil	2,431	3,265	2,267	1,343	1,413	1,054	789	968	850	981
Murphy	230	222	207	158	114	61	70	93	77	79
Occidental	982	219	379	505	416	274	198	292	229	183
Oryx Energy	958	1,034	808	1,394	871	512	593	640	492	418
Pennzoil	401	393	240	287	482	146	150	171	242	249
Phillips	1,619	1,062	1,768	942	607	309	299	292	326	432
Royal Dutch/Shell	2,647	2,405	2,067	3,034	3,206	2,014	1,685	2,258	1,253	1,410
Santa Fe Energy Resources	322	312	229	240	232	170	304	112	119	118
Texaco	3,186	3,247	2,773	2,037	1,797	1,140	1,056	1,119	1,403	1,222
USX	948	900	1,032	1,403	1,066	440	507	460	492	484
Union Pacific	615	518	357	381	384	211	216	361	339	577
Union Texas Petroleum	201	155	171	294	139	98	115	185	124	148
Unocal	1,003	873	606	835	810	483	436	510	511	1,080
TOTAL	$33,549	$34,357	$28,687	$31,192	$29,352	$15,592	$13,876	$21,466	$16,269	$16,530

SOURCE: Salomon Brothers Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 18

Domestic Outlays for Petroleum Property Acquisitions
For 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$148	$78	$109	$100	$37	$5	$53	$83	$982	$73
Amoco Corp.	298	203	781	718	928	339	356	1,119	112	49
Anadarko Petroleum	64	69	42	40	47	51	40	45	59	39
Atlantic Richfield	318	201	336	428	525	18	49	600	128	151
British Petroleum	NA	833	492	496	224	30	0	64	79	115
Burlington Resources	41	67	14	67	86	25	26	210	223	530
Chevron Corp.	1,281	385	442	281	61	22	42	2,617	25	53
Coastal	35	21	7	69	54	13	17	21	33	63
Consolidated Nat. Gas	39	16	49	48	148	20	60	70	195	30
DuPont (Conoco)	118	135	194	222	140	47	121	361	170	113
Enron	65	66	48	196	61	37	24	72	58	106
Enserch	19	17	31	77	55	17	22	37	187	18
Exxon	1,258	539	808	1,311	445	106	690	305	388	64
Kerr-McGee	58	45	87	34	136	11	30	116	21	75
Louisiana Land	128	61	39	44	41	28	11	19	26	19
Maxus Energy Corp.	126	211	0	35	40	8	15	11	23	26
Mesa	156	89	66	533	24	11	32	808	5	1
Mobil	598	1,087	690	0	93	62	65	194	58	53
Murphy	104	69	89	37	13	21	22	42	13	10
Occidental	171	44	68	45	42	44	24	31	40	14
Oryx Energy	178	129	216	592	153	81	159	152	108	36
Pennzoil	95	96	85	117	308	42	43	46	47	75
Phillips	800	148	1,056	341	25	13	28	10	36	32
Royal Dutch/Shell	627	422	367	1,256	1,277	496	323	862	162	87
Santa Fe Energy Resources	61	62	82	41	47	59	188	13	21	14
Texaco	543	692	865	399	125	59	104	111	516	89
USX	243	121	316	618	161	37	133	33	73	63
Union Pacific	145	92	99	54	54	7	55	45	58	161
Union Texas Petroleum	18	14	37	140	39	20	29	53	17	32
Unocal	192	174	127	274	121	24	38	84	37	467
TOTAL	$7,927	$6,186	$7,642	$8,613	$5,510	$1,753	$2,799	$8,234	$3,900	$2,658

SOURCE: Salomon Brothers Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 19

Domestic Outlays for Petroleum Exploration for 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$268	$148	$110	$163	$197	$90	$75	$83	$102	$134
Amoco Corp.	1,334	1,191	1,047	1,299	1,359	710	643	673	487	419
Anadarko Petroleum	92	81	62	59	41	27	29	37	51	52
Atlantic Richfield	853	886	849	996	785	341	232	323	384	483
British Petroleum	NA	460	500	592	689	285	256	187	177	209
Burlington Resources	50	132	42	97	71	30	23	46	37	40
Chevron Corp.	1,496	1,371	1,007	997	685	351	294	353	353	382
Coastal	22	34	9	15	20	4	8	7	12	16
Consolidated Nat. Gas	73	103	85	73	64	65	89	87	62	65
DuPont (Conoco)	138	288	251	269	284	177	145	140	157	214
Enron	82	140	106	62	35	17	19	33	35	54
Enserch	41	44	50	66	77	51	40	41	33	47
Exxon	954	932	780	1,032	1,108	491	333	471	345	379
Kerr-McGee	105	192	67	93	95	50	30	36	55	40
Louisiana Land	271	176	124	125	111	42	42	71	41	73
Maxus Energy Corp.	173	170	69	80	92	45	37	42	41	55
Mesa	177	134	102	67	45	7	5	5	9	9
Mobil	996	1,207	798	523	504	282	167	330	236	345
Murphy	91	109	95	81	66	28	35	32	26	49
Occidental	552	106	184	184	150	86	55	65	43	21
Oryx Energy	203	327	173	255	236	166	156	214	156	149
Pennzoil	115	95	59	66	58	22	31	62	56	47
Phillips	404	397	344	317	234	130	128	101	146	150
Royal Dutch/Shell	611	637	631	614	716	458	438	490	392	438
Santa Fe Energy Resources	120	72	47	63	58	29	35	32	33	32
Texaco	1,062	1,240	871	851	603	339	264	352	243	283
USX	304	347	297	291	263	93	122	166	137	150
Union Pacific	147	157	129	166	130	78	74	92	100	151
Union Texas Petroleum	84	76	70	104	56	44	37	80	53	72
Unocal	281	268	198	223	231	127	130	158	180	171
TOTAL	$11,099	$11,520	$8,156	$9,823	$9,063	$4,665	$3,972	$4,809	$4,182	$4,729

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Domestic Outlays for Petroleum Development for 30 Large Energy Companies (In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$125	$184	$125	$135	$103	$40	$41	$91	$93	$160
Amoco Corp.	1,237	933	644	810	1,120	781	816	856	623	767
Anadarko Petroleum	90	92	71	63	56	38	34	60	65	61
Atlantic Richfield	1,157	1,769	1,101	1,230	1,461	703	395	734	625	657
British Petroleum	NA	1,344	1,271	1,096	1,134	1,001	476	582	535	616
Burlington Resources	116	218	23	51	146	41	46	132	182	205
Chevron Corp.	1,654	1,611	1,018	1,410	1,060	589	575	560	592	688
Coastal	63	20	17	25	47	35	18	16	23	44
Consolidated Nat. Gas	51	59	84	151	120	81	73	81	84	61
DuPont (Conoco)	188	389	228	314	425	222	171	278	293	350
Enron	109	139	86	104	91	34	44	41	111	106
Enserch	91	80	67	93	122	74	86	58	45	66
Exxon	1,935	2,572	1,875	1,773	2,843	1,350	668	1,172	1,322	999
Kerr-McGee	107	88	60	59	26	25	15	33	31	65
Louisiana Land	282	242	112	107	84	35	34	44	30	34
Maxus Energy Corp.	225	220	87	73	123	54	61	46	34	42
Mesa	295	274	109	61	44	6	17	28	29	32
Mobil	837	971	779	820	816	710	557	444	556	583
Murphy	35	44	23	40	35	12	13	19	38	20
Occidental	259	69	127	276	224	144	119	196	146	148
Oryx Energy	577	578	419	547	482	265	278	274	228	233
Pennzoil	191	202	96	104	116	82	76	63	139	127
Phillips	415	517	368	284	348	166	143	181	144	250
Royal Dutch/Shell	1,409	1,346	1,069	1,164	1,213	1,060	924	906	699	885
Santa Fe Energy Resources	141	178	100	136	127	82	81	67	65	72
Texaco	1,581	1,315	1,037	787	1,069	742	688	656	644	850
USX	401	432	419	494	642	310	252	261	282	271
Union Pacific	323	269	129	161	200	126	87	224	181	265
Union Texas Petroleum	99	65	64	50	44	34	49	52	54	44
Unocal	530	431	281	338	458	332	268	268	294	442
TOTAL	$14,523	$16,651	$11,889	$12,756	$14,779	$9,174	$7,105	$8,423	$8,187	$9,143

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 21

Worldwide Outlays for Petroleum Property Acquisitions and Exploration and Devel for 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$991	$812	$645	$675	$705	$266	$358	$718	$1,547	$1,668
Amoco Corp.	4,031	3,546	3,482	4,056	4,865	2,723	2,638	6,792	2,540	2,785
Anadarko Petroleum	251	244	177	168	154	120	109	148	180	159
Atlantic Richfield	2,525	3,243	2,812	3,119	3,154	1,475	929	2,800	1,532	1,825
British Petroleum	NA	4,395	3,496	3,350	3,488	2,855	2,297	4,925	3,306	3,827
Burlington Resources	207	417	79	215	303	96	95	388	442	775
Chevron Corp.	5,936	4,955	3,882	3,783	2,642	1,624	1,608	4,331	1,949	2,059
Coastal	120	75	33	109	121	52	43	44	68	123
Consolidated Nat. Gas	163	178	218	272	332	166	222	238	341	156
DuPont (Conoco)	629	1,341	1,175	1,303	1,325	954	1,113	1,561	1,354	1,749
Enron	354	435	276	464	247	102	101	171	233	309
Enserch	154	164	167	246	269	147	151	141	269	137
Exxon	6,824	6,940	5,648	6,536	6,924	3,792	4,614	4,365	6,702	4,119
Kerr-McGee	459	466	312	279	360	149	154	274	327	277
Louisiana Land	803	602	369	354	321	140	137	172	130	173
Maxus Energy Co.	818	1,070	278	436	439	271	194	189	185	309
Mesa	636	509	277	661	113	24	54	841	43	42
Mobil	3,777	4,835	3,550	2,232	2,261	1,800	1,497	1,807	1,722	2,200
Murphy	303	325	318	275	230	104	125	145	135	147
Occidental	1,735	691	737	800	888	583	384	510	522	662
Oryx Energy	958	1,034	808	1,394	871	512	593	640	492	1,679
Pennzoil	424	419	262	330	523	165	174	182	255	264
Phillips	2,251	1,684	2,309	1,258	893	485	497	487	596	777
Royal Dutch/Shell	5,755	5,447	4,485	5,362	6,324	4,242	3,712	4,901	6,103	4,941
Santa Fe Energy Resources	322	312	229	240	232	170	304	112	119	118
Texaco	4,089	4,194	3,570	2,836	2,391	1,703	1,544	1,813	1,787	1,921
USX	1,541	1,372	1,500	1,822	1,588	791	805	712	737	859
Union Pacific	615	518	357	381	384	211	216	361	339	577
Union Texas Petroleum	427	398	366	486	368	206	170	282	243	397
Unocal	1,358	1,411	1,163	1,309	1,245	708	708	882	924	1,514
TOTAL	$48,458	$52,032	$42,980	$44,751	$43,960	$26,636	$25,546	$40,932	$35,122	$36,548

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 22

Domestic Oil and Gas Finding Costs Excluding Property Acquisition Costs(a) for 30 Large Energy Companies
(Dollars Per Barrel of Oil Equivalent)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$5.75	$19.53	$28.78	$11.25	$13.85	$6.05	$3.80	$5.17	$9.44	$4.72
Amoco Corp.	6.77	7.62	4.52	6.30	9.11	NM	3.77	6.65	5.05	5.35
Anadarko Petroleum	23.74	6.29	7.06	5.59	3.40	1.67	4.73	4.93	5.48	4.43
Atlantic Richfield	8.60	5.46	7.28	4.21	NM	3.15	1.38	3.23	3.76	4.37
British Petroleum	NA	NA	9.37	3.62	49.49	NM	1.54	5.87	3.62	2.45
Burlington Resources	8.16	21.88	0.19	6.94	8.19	32.77	5.38	1.13	5.52	3.44
Chevron Corp.	13.56	14.03	7.49	4.56	8.07	13.09	5.16	4.06	4.35	5.12
Coastal	4.81	3.77	1.58	3.33	6.81	26.00	NM	2.56	4.57	2.55
Consolidated Nat. Gas	7.15	14.29	2.82	7.68	4.72	4.66	4.93	8.63	6.39	10.80
DuPont (Conoco)	7.41	6.02	6.22	7.05	9.62	39.90	3.50	3.88	3.03	7.44
Enron	36.97	18.20	12.39	6.51	2.92	1.74	6.30	4.67	3.81	5.78
Enserch	4.63	7.22	5.48	2.42	3.47	3.23	4.64	6.91	2.08	4.95
Exxon	5.96	9.24	4.82	6.15	9.99	6.16	NM	6.08	10.25	4.09
Kerr-McGee	21.93	21.54	14.11	91.20	23.42	NM	6.28	2.44	6.97	7.88
Louisiana Land	13.71	10.90	6.10	11.23	7.36	4.44	11.69	4.83	4.73	5.53
Maxus Energy Corp.	10.47	29.62	17.02	7.46	10.93	3.76	6.32	6.21	8.33	4.81
Mesa	12.10	3.84	10.55	5.82	1.51	NM	1.01	6.00	4.15	1.89
Mobil	5.95	9.56	7.30	6.79	9.55	4.34	3.45	2.49	2.94	4.92
Murphy	12.60	16.39	6.00	10.68	13.47	18.46	4.17	2.94	4.63	4.27
Occidental	19.86	75.00	13.23	5.49	6.43	2.41	2.59	9.73	3.74	3.07
Oryx Energy	9.47	11.01	11.31	8.25	6.39	13.40	9.50	5.59	4.21	4.55
Pennzoil	7.65	3.96	7.38	9.36	6.69	28.36	7.73	3.18	9.44	3.77
Phillips	7.38	7.11	7.75	4.47	14.92	14.32	3.27	2.94	1.97	2.17
Royal Dutch/Shell	8.79	6.58	6.05	6.15	6.40	6.84	4.29	5.82	3.74	5.59
Santa Fe Energy Resources	14.37	12.30	7.23	9.87	8.47	6.59	6.00	1.49	1.66	3.88
Texaco	17.68	20.91	18.03	68.73	12.23	9.41	4.18	2.83	3.53	3.39
USX	10.96	11.05	9.40	7.52	5.20	4.62	6.23	9.60	8.16	6.79
Union Pacific	5.34	8.81	6.62	7.55	7.95	NM	NM	4.80	4.84	6.86
Union Texas Petroleum	12.34	35.25	12.56	10.87	5.13	8.67	5.49	6.14	6.17	4.90
Unocal	10.86	9.73	5.04	6.79	7.57	8.01	4.89	7.04	5.07	5.40
TOTAL	$8.84	$11.07	$6.30	$5.97	$16.90	$13.49	$6.11	$4.31	$4.32	$4.35

NM = Not meaningful
Finding Costs = Outlays for Petroleum Exploration and Development/Reserves Additions from Extensions and Discoveries, improved recovery and revisions

(a) This table reflects oil and gas finding costs excluding property acquisition costs, which gives a more accurate assessment of true finding costs.

SOURCE: Salomon Brothers, Inc., Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 23

Worldwide Oil and Gas Finding Costs Excluding Property Acquisition Costs(a)
for 30 Large Energy Companies
(Dollars Per Barrel of Oil Equivalent)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$8.50	$34.86	$16.85	$18.39	$10.48	$3.15	$2.75	$2.70	$10.60	$6.58
Amoco Corp.	5.20	7.80	5.72	7.23	6.96	34.13	3.97	7.94	6.13	4.79
Anadarko Petroleum	22.32	6.18	7.04	5.11	3.43	1.71	4.29	4.00	5.54	4.56
Atlantic Richfield	8.61	4.99	6.64	4.78	NM	3.76	1.79	4.19	5.15	3.86
British Petroleum	NA	NM	6.26	2.66	6.20	NM	2.46	11.03	11.92	5.71
Burlington Resources	8.16	21.88	0.19	6.94	8.19	32.77	5.38	1.13	5.52	3.44
Chevron Corp.	10.70	8.96	5.64	5.58	5.76	12.06	4.92	4.20	5.28	4.76
Coastal	4.81	3.77	1.58	3.33	6.81	26.00	NM	2.56	4.57	2.55
Consolidated Nat. Gas	7.15	14.29	2.82	7.68	4.72	4.66	4.93	6.63	6.39	10.80
DuPont (Conoco)	8.69	8.66	5.60	5.03	6.81	NM	3.79	5.27	4.89	9.46
Enron	14.92	13.19	7.09	8.35	NM	2.07	6.17	4.36	3.83	5.88
Enserch	4.58	7.93	6.04	2.57	3.67	3.45	4.82	6.65	2.19	5.17
Exxon	10.22	5.79	3.97	5.53	6.24	6.32	NM	5.09	5.22	8.93
Kerr-McGee	38.10	30.80	7.67	NM	16.69	NM	16.17	4.67	4.18	3.79
Louisiana Land	16.37	12.34	7.53	7.42	12.78	6.05	7.00	4.70	6.31	3.28
Maxus Energy Corp.	10.18	21.22	7.69	5.71	11.08	4.82	4.81	1.69	2.89	17.50
Mesa	11.95	3.91	10.13	5.30	1.53	NM	1.01	6.00	4.15	1.89
Mobil	2.70	18.98	4.87	6.24	10.49	3.31	3.76	2.58	2.86	3.57
Murphy	8.89	7.93	7.93	9.82	11.94	NM	3.61	7.87	4.55	5.95
Occidental	18.94	12.50	7.19	2.67	3.90	2.22	2.07	3.96	3.19	6.75
Oryx Energy	9.47	11.01	11.31	8.25	6.39	13.40	9.50	5.59	4.21	4.43
Pennzoil	7.81	4.22	7.98	11.14	7.20	22.23	8.56	3.33	10.80	4.16
Phillips	14.07	8.83	6.14	5.49	27.49	2.20	2.44	1.91	2.61	2.12
Royal Dutch/Shell	7.87	11.24	4.30	3.39	8.63	4.92	2.38	3.28	3.15	0.86
Santa Fe Energy Resources	14.37	12.30	7.23	9.87	8.47	6.59	6.00	1.49	1.66	3.88
Texaco	8.28	22.79	12.35	21.36	8.63	6.56	3.86	3.46	3.16	3.78
USX	14.89	16.12	5.44	9.60	6.70	7.86	5.90	6.56	7.23	2.97
Union Pacific	5.34	8.81	6.62	7.55	7.95	NM	NM	4.80	4.84	6.86
Union Texas Petroleum	12.70	NM	6.35	9.27	9.23	4.81	4.01	4.75	6.99	8.26
Unocal	7.73	34.79	7.85	7.79	6.03	5.22	3.62	5.49	3.86	3.79
TOTAL	$7.57	$10.85	$5.35	$5.28	$9.76	$8.74	$4.18	$4.31	$4.57	$2.85

NA = Not Available
NM = Not Meaningful
Finding Costs = Outlays for Petroleum Exploration and Development/Reserves Additions from extensions & discoveries, improved recovery and revisions

(a) This table reflects oil and gas finding costs excluding property acquisition costs, which gives a more accurate assessment of true finding costs.

SOURCE: Salomon Brothers, Inc., Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

BASIC PETROLEUM DATA BOOK

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Table 13. Average Price of Natural Gas Consumed by End Use Sector

Table 14. Spot Prices for Selected World Crude Oils

Table 15. Historical Average U.S. Gasoline Prices: 1918-1946

Average Annual Wellhead Price of United States Crude Oil Current and Constant 1982 Dollars (U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(a) (1982 = 100)	Price in 1982 Constant Dollars
1947	$1.93	25.6	7.54
1948	2.60	27.7	9.39
1949	2.54	26.3	9.66
1950	2.51	27.3	9.19
1951	2.53	30.4	8.32
1952	2.53	29.6	8.55
1953	2.68	29.2	9.18
1954	2.78	29.3	9.49
1955	2.77	29.3	9.45
1956	2.79	30.3	9.21
1957	3.09	31.2	9.90
1958	3.01	31.6	9.53
1959	2.90	31.7	9.15
1960	2.88	31.7	9.09
1961	2.89	31.6	9.15
1962	2.90	31.7	9.15
1963	2.89	31.6	9.15
1964	2.88	31.6	9.11
1965	2.86	32.3	8.85
1966	2.88	33.3	8.65
1967	2.92	33.4	8.74
1968	2.94	34.2	8.60
1969	3.09	35.6	8.68
1970	3.18	36.9	8.62
1971	3.39	38.1	8.90
1972	3.39	39.8	8.52
1973	3.39	45.0	8.64
1974	6.74	53.5	12.60
1975	7.56	58.4	12.95
1976	8.14	61.1	13.32
1977	8.57	64.9	13.20
1978	8.96	69.9	12.82
1979	12.51	78.7	15.90
1980	21.59	89.8	24.04
1981	31.77	98.0	32.42
1982	28.52	100.0	28.52
1983	26.19	101.3	25.85
1984	25.88	103.7	24.96
1985	24.09	103.2	23.34
1986	12.51	100.2	12.49
1987	15.40	102.8	14.98

See notes and sources at end of table

Section VI
Table 1a

Average Annual Wellhead Price of United States Crude Oil
Current and Constant 1982 Dollars
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(a) (1982 = 100)	Price in 1982 Constant Dollars
1988	12.58	106.9	11.77
1989	15.86	112.2	14.14
1990	20.03	116.3	17.22

(a) For 1976 and prior years figures are for Wholesale Price Index.

SOURCE: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

Section VI
Table 2

Average Annual Wellhead Price of United States Natural Gas
Current and Constant 1982 Cents
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index All Commodities(b) (1982 = 100)	Price in 1982 Constant Cents
1947	6.0	25.6	23.4
1948	6.5	27.7	23.5
1949	6.3	26.3	24.0
1950	6.5	27.3	23.8
1951	7.3	30.4	24.0
1952	7.8	29.6	26.4
1953	9.2	29.2	31.5
1954	10.1	29.3	34.5
1955	10.4	29.3	35.5
1956	10.8	30.3	35.6
1957	11.3	31.2	36.2
1958	11.9	31.6	37.7
1959	12.9	31.7	40.7
1960	14.0	31.7	44.2
1961	15.1	31.6	47.8
1962	15.5	31.7	48.9
1963	15.8	31.6	50.0
1964	15.4	31.6	48.7
1965	15.6	32.3	48.3
1966	15.7	33.3	47.1
1967	16.0	33.4	47.9
1968	16.4	34.2	48.0
1969	16.7	35.6	46.9
1970	17.1	36.9	46.3
1971	18.2	38.1	47.8
1972	18.6	39.8	46.7
1973	21.6	45.0	48.0
1974	30.4	53.5	56.8
1975	44.5	58.4	76.2
1976(b)	58.0	61.1	94.9
1977	79.0	64.9	121.7
1978	90.5	69.9	129.5
1979	117.8	78.7	149.7
1980	159.0	89.8	177.1
1981	198.0	98.0	202.0
1982	246.0	100.0	246.0
1983	259.0	101.3	255.7
1984	266.0	103.7	256.5
1985	251.0	103.2	243.2
1986	194.0	100.2	193.6
1987	167.0	102.8	162.5

See notes and sources at end of table

Average Annual Wellhead Price of United States Natural Gas
Current and Constant 1982 Cents
(U.S. cents per thousand cubic feet)

Year	Price In Current Cents	Producer Price Index All Commodities(b) (1982 = 100)	Price In 1982 Constant Cents
1988	169.0	106.9	158.1
1989	169.0	112.2	150.6
1990	172.0	116.3	147.9

(a) For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i.
For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.
(b) For 1976 and prior years, figures are for Wholesale Price Index.

SOURCE: Current Price, U.S. Energy Information Administration.
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1968(a)	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99
1984	28.53	28.88	28.63
1985	26.65	27.03	26.76
Jan.	26.89	26.51	27.02
Feb.	26.39	27.05	26.53
Mar.	26.61	27.23	26.77
Apr.	26.79	27.61	27.04
May	26.90	27.62	27.11
Jun.	26.50	27.27	26.69
Jul.	26.67	26.46	26.61
Aug.	26.45	26.62	26.50
Sep.	26.39	26.59	26.44
Oct.	26.59	26.80	26.65
Nov.	26.72	27.12	26.85
Dec.	26.91	26.60	26.82

See notes and sources at end of table

Section VI
Table 3a

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1986	14.83	13.98	14.55
Jan.	25.94	24.92	25.64
Feb.	20.42	18.02	19.81
Mar.	15.11	14.21	14.87
Apr.	13.06	13.14	13.08
May	12.99	13.17	13.05
Jun	13.11	12.25	12.82
Jul.	11.82	10.91	11.51
Aug.	11.95	11.87	11.92
Sep.	13.27	12.85	13.11
Oct.	13.20	12.78	13.05
Nov.	13.21	13.46	13.30
Dec.	13.67	14.16	13.85
1987	17.77	18.16	17.91
Jan.	16.02	16.43	16.17
Feb.	16.76	16.96	16.82
Mar.	16.93	17.24	17.03
Apr.	17.21	17.88	17.43
May	17.64	18.24	17.84
Jun	18.34	18.71	18.47
Jul	19.05	19.25	19.14
Aug.	19.41	19.30	19.36
Sep.	18.58	18.55	18.57
Oct.	18.37	18.57	18.45
Nov.	17.95	18.16	18.03
Dec.	17.03	17.45	17.19
1988	14.73	14.71	14.73
Jan.	15.82	16.10	15.92
Feb.	15.61	15.61	15.72
Mar.	14.92	14.82	14.88
Apr.	15.88	15.69	15.81
May	16.35	16.02	16.22
Jun	15.83	15.52	15.71
Jul	14.65	14.80	14.71
Aug.	14.36	14.37	14.36
Sep.	13.97	13.90	13.94
Oct.	12.90	13.03	12.96
Nov.	12.61	12.54	12.58
Dec.	13.88	14.08	13.97

See notes and sources at end of table

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1989	17.87	18.08	17.97
Jan.	15.50	16.04	15.73
Feb.	16.11	16.61	16.32
Mar.	17.34	17.77	17.52
Apr.	18.91	19.59	19.22
May	19.01	19.05	19.03
Jun.	18.56	18.27	18.43
Jul.	18.32	17.99	18.18
Aug.	17.23	17.23	17.23
Sep.	17.70	17.62	17.66
Oct.	18.20	18.29	18.24
Nov.	18.45	18.32	18.39
Dec.	19.16	20.05	19.54
1990	22.60	21.81	22.24
Jan.	20.75	20.51	20.64
Feb.	20.75	19.84	20.35
Mar.	19.32	18.94	19.14
Apr.	17.37	16.71	17.06
May	16.46	16.03	16.26
Jun.	15.07	14.89	14.98
Jul.	15.87	16.45	16.15
Aug.	23.00	24.26	23.57
Sep.	30.16	29.82	30.01
Oct.	33.32	32.98	33.18
Nov.	30.75	30.40	30.61
Dec.	26.46	25.84	26.21
1991			
Jan.	23.25	22.41	22.90
Feb.	19.53	18.30	19.02
Mar.	18.12	17.59	17.89
Apr.	18.56	18.27	18.43
May	18.98	18.14	18.60
Jun.	18.16	17.78	17.98
Jul.	18.91	18.14	18.57
Aug.	19.10	18.71	18.92
Sep.	19.31	18.94	19.14

(a) Not available prior to 1968.

SOURCE: U.S. Department of Energy, Annual Energy Review and Monthly Energy Review.

Trend of Wholesale Prices of Commodities used in Petroleum Production
(1982=100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1947	12.5	NA	NA	NA
1948	13.5	NA	NA	NA
1949	14.3	NA	NA	NA
1950	14.6	NA	NA	NA
1951	16.1	NA	NA	NA
1952	16.1	NA	NA	NA
1953	16.8	NA	NA	NA
1954	17.4	18.2	15.3	11.3
1955	18.1	19.3	16.1	12.1
1956	19.2	22.1	17.2	13.3
1957	20.6	24.5	19.1	15.1
1958	20.7	25.3	19.9	15.7
1959	20.7	25.2	20.3	16.0
1960	20.7	25.0	20.3	16.0
1961	21.0	24.7	19.8	15.6
1962	21.3	24.8	19.5	15.4
1963	21.2	25.4	19.7	15.5
1964	21.5	24.9	20.3	16.0
1965	21.6	23.5	21.3	16.8
1966	21.9	23.5	21.3	16.8
1967	22.7	24.0	22.1	17.1
1968	24.2	25.0	22.5	17.6
1969	25.6	26.2	23.1	18.2
1970	27.0	27.2	24.2	19.0
1971(a)	27.9	29.9	26.7	21.0
1972	28.9	32.1	28.4	22.4
1973	30.3	33.4	29.5	23.3
1974	35.9	45.5	37.8	31.0
1975	44.6	54.7	46.8	37.7
1976	49.5	56.3	49.4	41.0
1977	53.8	62.5	54.1	46.2
1978	59.5	71.2	60.1	51.3
1979	65.8	72.8	63.2	54.3
1980	76.3	80.7	72.3	62.8
1981	91.1	94.6	90.2	85.9
1982	100.0	100.0	100.0	100.0
1983	97.4	97.5	89.9	78.0
1984	96.6	97.3	85.4	71.4
1985	96.8	97.2	84.4	66.1
1986	94.3	96.7	78.6	61.6
1987	93.3	97.3	81.2	NA
1988	97.0	99.6	87.4	NA
1989	99.1	92.4	88.7	65.2

See notes and sources at end of table

Trend of Wholesale Prices of Commodities used in Petroleum Production
(1982=100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1990	102.4	NA	NA	NA

NA = Not available
(a) For 1971 and prior years figures are for Wholesale Price Index

SOURCE: U.S. Bureau of Labor Statistics, Producer Price Index

Trend of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

	Retail Price of Regular Grade Gasoline			Price Indexes of Some Other Consumer Items(a)				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation(b)
	Cents per Gallon			Index: 1982-84 = 100				
1947	16.93	6.18	23.11	22.3	24.1	25.8	39.9	28.0
1948	19.54	6.34	25.88	24.1	26.1	27.5	42.5	29.4
1949	20.27	6.52	26.79	23.8	25.0	28.7	40.8	30.5
1950	20.08	6.68	26.76	24.1	25.4	29.7	40.3	30.3
1951	20.31	6.84	27.15	26.0	28.2	30.9	43.9	31.2
1952	20.04	7.32	27.36	26.5	28.7	32.2	43.5	31.3
1953	21.28	7.41	28.69	26.7	28.3	33.9	43.1	31.6
1954	21.56	7.48	29.04	26.9	28.2	35.1	43.1	31.3
1955	21.42	7.65	29.07	26.8	27.8	35.6	42.9	31.2
1956	21.57	8.36	29.93	27.2	28.0	36.3	43.7	31.7
1957	22.11	8.85	30.96	28.1	28.9	37.0	44.5	32.8
1958	21.47	8.91	30.38	28.9	30.2	37.6	44.6	34.1
1959	21.18	9.31	30.49	29.1	29.7	38.2	45.0	34.7
1960	20.99	10.14	31.13	29.6	30.0	38.7	45.7	35.5
1961	20.53	10.23	30.76	29.9	30.4	39.2	46.1	36.3
1962	20.36	10.28	30.64	30.3	30.6	39.7	46.3	37.2
1963	20.11	10.31	30.42	30.6	31.1	40.1	46.9	37.8
1964	19.98	10.37	30.35	31.0	31.5	40.5	47.3	38.7
1965	20.70	10.45	31.15	31.6	32.2	40.9	47.8	39.0
1966	21.57	10.51	32.08	32.5	33.8	41.5	49.0	39.7
1967	22.55	10.61	33.16	33.4	34.1	42.2	51.0	40.7
1968	22.93	10.78	33.71	34.8	35.3	43.3	53.7	43.0
1969	23.85	10.99	34.84	36.7	37.1	44.7	56.8	45.2
1970	24.55	11.14	35.69	38.8	39.2	46.5	59.2	47.5
1971	25.20	11.23	36.43	40.5	40.4	48.7	61.1	50.0
1972	24.46	11.67	36.13	42.1	123.5	50.4	62.3	51.5
1973	26.88	11.94	38.82	48.2	141.4	52.5	64.6	52.9
1974	40.41	12.00	52.41	55.1	161.7	55.2	69.4	56.9
1975	45.44	11.77	57.22	53.8	59.8	58.0	72.5	62.0
1976	47.44	12.03	59.47	56.9	61.6	61.1	75.2	65.1
1977	50.70	12.37	63.07	60.6	65.5	64.8	78.6	68.3
1978	53.09	12.62	65.71	65.2	72.0	69.3	81.4	71.9
1979	74.33	13.46	87.79	72.6	79.9	74.3	84.9	76.7
1980	104.73	14.37	119.10	82.4	86.8	80.9	90.9	83.6
1981	NA	NA	131.10	90.9	93.6	87.9	95.3	90.1
1982	NA	NA	122.20	96.5	97.4	94.6	97.8	96.0
1983	95.36	20.34	115.70	99.6	99.4	100.1	100.2	100.1
1984	92.06	20.84	112.90	103.9	103.2	105.3	102.1	103.8
1985	89.64	21.86	111.50	107.6	105.6	111.8	105.0	107.9
1986	63.63	22.07	85.70	109.7	109.0	118.3	105.9	111.6
1987	66.33	23.37	89.70	113.7	113.5	123.1	110.6	115.3
1988	65.85	24.10	89.95	118.3	118.2	127.8	115.4	120.3

See notes and sources at end of table

Trend of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

Year	Retail Price of Regular Grade Gasoline: Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	Price Indexes of Some Other Consumer Items(a): All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation(b)
	Cents per Gallon			Index: 1982-84 = 100				
1989	74.80	25.20	100.00	124.0	125.1	132.8	118.6	126.5
1990	89.00	25.90	114.90	130.7	132.4	138.4	124.1	132.4

(a) Beginning in July 1978, the CPI was given in two forms, CPI-U and CPI-W. The index used above is CPI-U.
(b) Represented "Reading and Recreation" prior to July 1978.
NA = Not available

SOURCE: 1947-1978: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-1980: Retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
1981-1990: Retail price of regular grade gasoline, Bureau of Labor Statistics
Price indexes: U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 6

United States Annual Average Retail Price of #2 Home Heating Oil

Year		Cost per Gallon(a) (current cents)		Consumer Price Index (1982-84 = 100)	Cost Per Gallon (constant cents)
1956	(b)	15.21		27.2	55.92
1957		15.98		28.1	56.87
1958		15.07		28.9	52.15
1959		15.29		29.1	52.54
1960		15.02		29.6	50.74
1961		15.62		29.9	52.24
1962		15.62		30.2	51.72
1963		15.97		30.6	52.19
1964		16.06		31.0	51.81
1965		16.04		31.5	50.92
1966		16.43		32.4	50.71
1967		16.91		33.4	50.63
1968		17.44		34.8	50.11
1969		17.82		36.6	48.69
1970		18.48		38.8	47.63
1971		19.63		40.5	48.47
1972		19.72		41.8	47.18
1973		22.75		44.4	51.24
1974		36.01		49.3	73.04
1975		38.98		53.8	72.45
1976		41.80		56.9	73.46
1977		47.37		60.6	78.17
1978		50.80	(e)	65.2	77.91
1979		72.80		72.6	100.28
1980		100.97		82.4	122.54
1981		124.66		90.9	137.14
1982		120.86		96.5	125.24
1983		110.12		99.6	110.56
1984		111.97		103.9	107.77
1985		107.55		107.6	99.95
1986		83.45		109.6	76.14
1987		85.15		113.6	74.96
1988		84.63		118.3	71.54
1989		88.76		124.0	71.58
1990		108.74		130.7	83.20

(a) Includes all applicable taxes.
(b) Data prior to 1956 is not available on a comparable basis.
(e) Estimate.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics
BLS Monthly prices averaged by API to derive annual average price

7

Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead

Year	Value (Thousand dollars) Oil(a)	Value (Thousand dollars) Gas	Production (Trillion BTU) Oil	Production (Trillion BTU) Gas	Price at Wellhead (Cents per million BTU) Oil	Price at Wellhead (Cents per million BTU) Gas	Price at Wellhead (1982 constant cents per million BTU) Oil	Price at Wellhead (1982 constant cents per million BTU) Gas
1947	$3,577,890	$274,709	10,771	5,012	33.2	5.5	129.7	21.4
1948	5,245,080	333,173	11,717	5,615	44.8	5.9	161.7	21.4
1949	4,674,770	344,034	10,683	5,911	43.8	5.8	166.5	22.1
1950	4,963,380	408,521	11,449	6,841	43.4	6.0	159.0	21.9
1951	5,690,410	542,964	13,037	8,106	43.6	6.7	143.4	22.0
1952	5,785,230	623,649	13,282	8,705	43.6	7.2	147.3	24.2
1953	6,327,100	774,966	13,671	9,116	46.3	8.5	158.6	29.1
1954	6,424,930	882,501	13,427	9,486	47.9	9.3	163.5	31.7
1955	6,870,380	978,357	14,445	10,532	47.6	9.3	162.5	31.7
1956	7,296,760	1,083,812	15,344	11,252	47.6	9.6	157.1	31.8
1957	8,079,259	1,201,759	15,346	11,886	52.6	10.1	168.6	32.4
1958	7,379,973	1,317,521	14,154	12,244	52.1	10.8	164.9	34.1
1959	7,473,336	1,556,800	14,662	13,361	51.0	11.7	160.9	36.8
1960	7,420,181	1,789,970	14,664	14,136	50.6	12.7	159.6	39.9
1961	7,565,582	1,996,241	15,186	14,691	49.8	13.6	157.8	43.0
1962	7,774,051	2,146,301	15,496	15,366	50.2	14.0	158.4	44.0
1963	7,965,743	2,326,030	15,741	16,271	50.6	14.3	160.1	45.3
1964	8,017,078	2,387,689	15,691	17,138	51.1	13.9	161.7	44.1
1965	8,158,298	2,494,542	15,930	17,652	51.2	14.1	158.5	43.8
1966	8,726,423	2,702,759	16,925	18,964	51.6	14.2	156.0	42.8
1967	9,375,727	2,898,741	18,100	20,087	51.8	14.4	156.1	43.2
1968	9,794,826	3,168,668	18,593	21,548	52.7	14.7	154.1	43.0
1969	10,426,680	3,455,615	18,886	22,838	55.2	15.1	155.1	42.5
1970	11,173,726	3,745,680	20,401	24,154	54.8	15.5	148.5	42.0
1971	11,692,998	4,086,482	20,033	24,806	58.4	16.5	153.3	43.2
1972	11,706,510	4,180,462	20,041	24,792	58.4	16.9	146.7	42.4
1973	13,057,906	4,894,072	19,493	24,746	67.0	19.8	148.9	43.9
1974	21,580,549	6,573,402	18,575	23,689	116.2	27.7	217.2	51.9
1975	23,116,059	8,945,062	17,729	20,531	130.4	43.6	223.3	74.6
1976	24,229,540	11,571,776	17,262	20,371	140.4	56.8	229.8	93.0
1977	25,790,722	15,824,954	17,454	20,025	147.8	79.0	227.7	121.8
1978	28,477,824	18,084,914	18,420	20,393	154.4	88.7	220.9	126.9
1979	39,051,332	24,113,634	18,064	20,901	216.7	115.4	275.3	146.5
1980	65,722,016	32,043,704	18,249	20,482	360.2	156.4	401.1	174.2
1981	99,396,384	39,551,253	18,147	22,011	547.8	179.7	559.0	183.4
1982	90,029,512	45,496,765	18,309	20,502	491.7	221.9	491.7	221.9
1983	82,745,734	43,614,369	18,325	18,757	451.5	232.5	445.7	229.5
1984	84,102,132	48,404,611	18,848	20,217	446.2	239.4	430.3	230.9
1985	78,851,236	43,182,598	18,992	19,124	415.2	225.8	402.3	218.8
1986	39,634,833	32,607,825	18,376	18,636	215.7	175.0	215.3	174.6
1987	46,960,095	28,888,630	17,675	19,292	265.7	149.7	258.5	145.7
1988	37,478,151	30,170,751	17,279	19,786	216.9	152.5	202.9	142.6

See notes and sources at end of table

Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead

	Value (Thousand dollars)		Production (Trillion BTU)		Price at Wellhead (Cents per million BTU)		Price at Wellhead (1982 constant cents per million BTU)	
Year	**Oil(a)**	**Gas**	**Oil**	**Gas**	**Oil**	**Gas**	**Oil**	**Gas**
1989	44,043,552	30,575,912	16,117	19,975	273.3	153.1	243.6	136.4
1990	53,774,280	31,658,176	15,571	20,548	345.3	154.5	296.9	132.8

(a) Beginning in 1981, dollar value computed by API based on wellhead price times production.

SOURCE: 1947-1975: Dollar value and production, U.S. Bureau of Mines
1976-1980: Dollar value and production, U.S. Energy Information Administration
1981-1989: Production and wellhead price, U.S. Energy Information Administration
U.S. Bureau of Labor Statistics, Producer Price Index
Constant price at wellhead computed by the American Petroleum Institute

Section VI
Table 8

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	2.75	2.59	2.59
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	1.58	2.20	2.79	3.04	3.04
Arizona(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	1.82	2.48	2.48	2.46	2.48	2.46	2.60	2.73	2.71	2.69	2.92	2.82	2.77	2.77	2.75	2.66	2.66
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46	2.43	2.50	2.48
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90	2.88	2.88	2.88
Florida(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96	2.99	2.98	2.98
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94	2.98	2.98	2.96
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90	2.89	2.91	2.91
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85	2.97	2.95	2.92
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14	3.15	3.15	3.12
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91	2.92	2.85	2.85
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83	2.82	2.78	2.76
Missouri(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1.94	2.58	2.58	2.52	2.47	2.25	2.16	2.20	2.26	2.58	2.70	2.65	2.56	2.41	2.42	2.42	2.44
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87	2.85	2.83	2.83
Nevada(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85	2.86	2.88	2.88
New York(b)	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64	4.76	4.60	4.59
North Dakota	-	-	-	-	-	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71	2.72	2.75	2.73
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97	3.09	3.10	3.15
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92	2.91	2.92	2.91
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55	4.71	4.57	4.56
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96	2.97	2.99	2.97
Utah	-	-	-	-	-	-	-	-	-	-	2.27	2.99	2.86	2.74	2.75	2.74	2.72
Virginia(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07	4.14	4.00	3.99
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51	2.50	2.49	2.50
Other states	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.90	2.93	2.94	2.45	2.31	2.10	2.06
U.S. TOTAL	1.93	2.60	2.54	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90	2.88	2.89	2.90	2.89

See notes and sources at end of table

Section VI
Table 8a

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	2.60	2.61	2.60	2.65	2.67	2.70	2.84	3.00	3.07	3.58	8.54	10.13	10.57	9.67	10.52	11.79	20.57
Alaska	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03	6.14	5.23	10.25	16.52
Arizona(b)	-	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29	12.30
Arkansas	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	10.63	14.72	24.17
California	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	8.58	12.78	23.87
Colorado	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	10.84	13.28	22.91
Florida(b)	-	-	-	-	-	-	-	-	3.18	4.59	9.66	11.71	11.24	11.67	12.00	13.07	18.84
Illinois	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.81	23.49	35.78
Indiana	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.70	23.28	35.91
Kansas	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	21.57	34.20
Kentucky	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.55	34.98
Louisiana	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.03	11.42	19.87
Michigan	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	11.86	14.47	23.54
Mississippi	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	7.91	10.74	20.85
Missouri(b)	-	-	-	-	-	-	-	-	-	-	-	-	13.30	12.50	12.25	25.68	37.75
Montana	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.04	12.03	20.53
Nebraska	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	18.13	30.60
Nevada(b)	-	-	-	-	-	-	-	-	-	-	-	-	10.35	11.50	12.00	11.54	16.65
New Mexico	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.17	14.33	24.06
New York(b)	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	14.74	23.78	37.39
North Dakota	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	9.75	13.64	26.42
Ohio	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.80	22.79	36.64
Oklahoma	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	11.30	17.53	29.25
Pennsylvania	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.72	24.13	37.46
South Dakota	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.16	15.35	28.81
Tennessee(b)	-	-	-	-	-	-	-	-	-	-	9.44	11.51	13.72	13.75	12.70	20.26	34.29
Texas	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.65	21.84
Utah	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41	19.79
Virginia(b)	-	-	-	-	-	-	-	-	-	-	-	-	11.68	12.50	12.50	24.80	37.21
West Virginia	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.48	23.35	36.92
Wyoming	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	11.73	21.34
Other states	2.12	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	5.77	6.33	-	-	-	-	-
U.S. TOTAL	2.88	2.86	2.88	2.92	2.94	3.09	3.18	3.39	3.39	3.89	6.74	7.56	8.15	8.57	9.00	12.64	21.59

See notes and sources at end of table

Section VI
Table 8b

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	35.80	32.32	30.07	29.39	25.77	13.91	16.80	13.86	17.14	22.10
Alaska	23.60	20.08	17.92	18.13	17.12	6.71	10.83	8.43	11.93	15.60
Arizona(b)	24.00	31.00	30.00	28.00	27.00	15.15	17.35	14.57	18.30	23.38
Arkansas	33.69	30.12	28.28	28.15	25.79	14.54	17.23	14.41	17.21	21.55
California	26.80	24.58	22.61	22.09	22.14	11.90	13.92	10.97	13.98	17.80
Colorado	35.69	31.56	28.92	28.09	25.64	13.98	17.71	14.83	18.72	23.16
Florida(b)	25.00	32.00	31.10	31.00	29.00	23.13	16.05	16.43	11.75	18.25
Illinois	36.03	31.69	29.12	28.76	26.90	14.70	17.53	14.79	18.24	23.36
Indiana	36.07	31.66	29.06	28.72	26.82	14.55	17.49	14.78	18.26	23.46
Kansas	35.80	30.79	28.45	27.99	25.33	14.02	17.37	14.55	18.04	23.21
Kentucky	35.90	31.19	28.60	28.24	26.20	14.20	17.19	14.58	18.23	23.20
Louisiana	35.45	32.44	30.02	29.67	27.22	15.32	17.97	15.22	18.21	23.03
Michigan	35.74	31.80	28.93	28.54	26.16	14.61	17.63	14.92	17.95	22.90
Mississippi	30.47	29.04	26.76	27.26	25.51	13.63	16.78	13.98	16.87	21.04
Missouri(b)	34.38	31.25	31.20	27.50	25.00	15.25	17.25	14.50	17.75	21.50
Montana	34.69	31.25	28.80	28.07	25.29	13.58	16.57	13.84	16.91	21.59
Nebraska	35.32	30.98	28.58	27.83	25.42	13.70	17.08	14.08	17.23	21.94
Nevada(b)	23.96	23.95	23.80	25.80	26.00	12.00	11.50	12.50	15.80	17.30
New Mexico	35.04	31.82	29.26	28.69	26.84	14.93	17.57	14.78	17.73	22.43
New York(b)	34.15	30.91	28.19	27.70	25.19	16.03	17.40	16.00	17.70	23.32
North Dakota	35.63	31.89	29.27	28.39	25.32	13.54	16.76	13.85	16.99	21.93
Ohio	36.11	30.90	28.14	27.71	25.11	15.51	17.42	15.19	18.01	23.09
Oklahoma	35.43	32.04	29.67	29.11	26.28	14.47	17.62	14.86	18.11	22.92
Pennsylvania	36.03	30.77	28.28	27.71	25.05	15.77	17.43	15.26	18.12	23.00
South Dakota	35.55	31.63	29.10	28.36	25.79	13.81	16.96	14.04	17.19	22.32
Tennessee(b)	33.00	32.10	32.00	29.00	26.00	15.00	15.84	13.99	18.00	19.72
Texas	35.06	31.77	29.35	28.87	26.80	14.73	17.55	14.71	17.68	22.36
Utah	34.14	30.50	28.12	27.21	23.98	13.33	17.22	14.24	18.48	22.61
Virginia(b)	36.25	32.35	32.25	27.28	24.75	15.00	15.75	13.95	18.17	22.00
West Virginia	35.63	29.98	27.27	26.90	24.35	14.68	16.56	14.35	17.13	22.16
Wyoming	32.30	29.37	27.19	26.73	24.67	12.94	16.45	13.47	16.60	21.05
Other states	-	-	-	-	-	-	-	-	-	-
U.S. TOTAL	31.77	28.52	26.19	25.88	24.09	12.51	15.40	12.58	15.74	20.03

(a) Data represent the average first purchase prices of crude at the lease or wellhead.
(b) Prices for these states included in "other states" from 1947-1975. 1976-1989, they were estimated by the IPAA

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1989: U.S. Energy Information Administration

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	-	-	-	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3	7.4	9.8	11.8
Alaska	-	-	-	-	-	-	-	-	-	-	-	12.0	12.0	12.2	20.4	21.4	24.7
Arizona	-	-	-	-	-	-	-	-	-	14.0	-	-	-	-	-	11.9	12.1
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9	13.5	14.9	15.5
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7	28.3	29.0	29.3
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9	11.6	11.6	11.7
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2	16.9	20.7	20.0
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5	12.8	14.3	12.9
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8	20.1	21.1	23.4
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7	12.5	12.4	13.3
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4	24.8	24.8	23.9
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1	18.7	19.7	19.8
Maryland	-	-	-	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6	27.2	27.0	26.9
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4	21.1	21.3	27.1
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8	18.6	19.0	18.0
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	-	-	25.0	24.7	25.0	27.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1	7.4	7.4	7.5
Nebraska	-	-	-	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5	16.7	18.2	18.8
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7	10.9	11.5	11.9
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9	29.5	28.1	29.5
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4	12.6	13.7	19.1
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5	24.9	25.6	24.2
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9	12.1	12.8	13.0
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8	29.4	27.2	26.0
South Dakota	6.0	6.5	6.3	-	5.0	5.0	5.0	5.0	-	-	-	-	-	-	-	-	-
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5	18.3	18.5	18.9
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3	12.3	12.3	12.5
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0	15.7	16.8	18.2
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1	27.1	27.1	23.4
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2	27.4	27.5	26.6
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0	12.5	14.6	14.2
Total	6.0	6.5	6.3	6.5	7.3	7.8	9.2	10.1	10.4	10.8	11.3	11.9	12.9	14.0	15.1	15.5	15.8

See notes and sources at end of table

Section VI
Table 9a

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5	147.0	150.0	203.9	318.6
Alaska	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9	40.2	52.1	51.8	73.2
Arizona	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2	33.5	37.0	41.3	NA
Arkansas	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0	58.5	75.0	95.9	69.6
California	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0	116.9	135.7	170.5	217.0
Colorado	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0	81.0	84.0	141.0	147.0
Florida	13.5	12.9	14.2	14.8	15.2	15.7	-	29.9	32.0	34.3	53.6	97.3	98.2	108.9	139.0	157.2	173.0
Illinois	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5	120.0	129.0	186.1	190.0
Indiana	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0	69.0	71.0	105.4	135.0
Kansas	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0	48.5	57.0	75.6	77.2
Kentucky	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0	55.0	58.0	94.7	89.3
Louisiana	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0	70.3	83.6	111.5	160.7
Maryland	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3	39.0	61.4	103.6	45.6
Michigan	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5	101.0	119.7	174.0	235.5
Mississippi	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0	73.0	114.6	160.0	231.7
Missouri	24.3	24.5	-	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5	42.0	-	-	-
Montana	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5	71.9	84.7	121.1	145.4
Nebraska	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3	65.2	68.0	85.0	82.9
New Mexico	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5	81.0	98.8	136.6	175.8
New York	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0	116.0	119.0	126.6	194.9
North Dakota	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0	35.3	46.2	128.0	118.8
Ohio	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8	139.7	157.0	180.5	197.7
Oklahoma	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2	79.0	90.2	112.4	150.7
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213.0	240.0
Pennsylvania	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5	80.0	86.0	132.6	212.7
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210.7	NA
Tennessee	19.5	19.0	-	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0	74.0	164.0	170.0	176.0
Texas	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8	90.3	99.5	123.4	156.5
Utah	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5	61.2	64.3	71.6	111.7
Virginia	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0	126.0	131.3	168.1	285.0
West Virginia	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0	61.0	65.8	105.0	300.0
Wyoming	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0	64.0	79.3	113.0	192.0
Total	15.4	15.6	15.7	16.0	16.4	16.7	17.1	18.2	18.6	21.6	30.4	44.5	58.0	79.0	90.5	117.8	159.0

See notes and sources at end of table

Section VI
Table 9b

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	477.0	344.0	428.0	373.0	371.0	289.0	297.0	265.0	272.0	275.0
Alaska	62.0	63.0	73.0	73.0	74.0	50.0	94.0	127.0	136.0	138.0
Arizona	NA	259.0	308.0	290.0	NA	NA	NA	NA	180.0	120.0
Arkansas	181.0	213.0	229.0	254.0	255.0	251.0	229.0	194.0	241.0	206.0
California	257.0	309.0	357.0	380.0	336.0	289.0	237.0	239.0	232.0	236.0
Colorado	197.0	317.0	338.0	343.0	290.0	205.0	176.0	159.0	152.0	155.0
Florida	271.0	246.0	233.0	257.0	243.0	120.0	168.0	153.0	205.0	225.0
Illinois	247.0	262.0	284.0	278.0	277.0	257.0	224.0	219.0	215.0	211.0
Indiana	208.0	155.0	209.0	338.0	251.0	123.0	171.0	157.0	171.0	201.0
Kansas	92.0	151.0	157.0	149.0	127.0	121.0	115.0	136.0	144.0	156.0
Kentucky	101.0	152.0	151.0	170.0	239.0	188.0	182.0	256.0	213.0	224.0
Louisiana	207.0	260.0	267.0	273.0	266.0	221.0	178.0	181.0	182.0	183.0
Maryland	48.0	78.0	55.0	55.0	59.0	65.0	55.0	93.0	85.0	114.0
Michigan	286.0	319.0	358.0	376.0	360.0	360.0	324.0	318.0	316.0	300.0
Mississippi	321.0	391.0	378.0	347.0	317.0	213.0	194.0	186.0	197.0	176.0
Missouri	-	-	-	375.0	350.0	375.0	375.0	375.0	350.0	157.0
Montana	191.0	215.0	241.0	246.0	239.0	205.0	180.0	170.0	155.0	179.0
Nebraska	145.0	199.0	293.0	224.0	301.0	282.0	242.0	266.0	223.0	226.0
New Mexico	213.0	247.0	268.0	271.0	262.0	187.0	166.0	170.0	156.0	169.0
New York	267.0	375.0	385.0	400.0	337.0	339.0	200.0	230.0	220.0	220.0
North Dakota	194.0	230.0	227.0	226.0	190.0	135.0	130.0	200.0	178.0	179.0
Ohio	217.0	271.0	324.0	319.0	308.0	284.0	258.0	255.0	255.0	254.0
Oklahoma	188.0	274.0	283.0	272.0	247.0	171.0	147.0	155.0	159.0	157.0
Oregon	260.0	333.0	333.0	278.0	240.0	200.0	145.0	160.0	140.0	139.0
Pennsylvania	233.0	280.0	300.0	325.0	316.0	250.0	225.0	215.0	240.0	235.0
South Dakota	275.0	308.0	337.0	367.0	251.0	246.0	271.0	195.0	111.0	156.0
Tennessee	255.0	300.0	250.0	350.0	248.0	178.0	131.0	150.0	165.0	165.0
Texas	187.0	217.0	236.0	245.0	233.0	165.0	147.0	151.0	153.0	157.0
Utah	110.0	306.0	340.0	408.0	352.0	290.0	188.0	239.0	158.0	170.0
Virginia	215.0	369.0	330.0	300.0	302.0	245.0	208.0	208.0	219.0	230.0
West Virginia	300.0	320.0	310.0	345.0	385.0	390.0	385.0	305.0	311.0	319.0
Wyoming	277.0	322.0	318.0	332.0	301.0	252.0	176.0	153.0	124.0	116.0
Total	198.0	246.0	259.0	266.0	251.0	194.0	167.0	169.0	169.0	171.0

SOURCE: 1947-1975: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals
1976-1990: U.S. Energy Information Administration, Natural Gas Annuals.

Posted Prices of Key Foreign Crude Oils(a)
(U.S. Dollars per barrel)

CRUDE &		1970	1971(b)	1972				1973(b)			1974		1975		1977	1979
GRAVITY		31 Aug	15 Feb	20 Jan	1 Jan	1 Oct	16 Oct	1 Nov	1 Jan	1 July	1 Nov	1 Jan	1 Oct	1 Jan	1 July	1 Jan
		PERSIAN/ARABIAN GULF CRUDES														
Saudi Arabia																
Arab Light	**34o**	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66	14.34
Arab Berri	**39**	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22	14.93
Arab Medium	**31**	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25	13.91
Arab Heavy	**27**	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92	13.57
Iran																
Iran Light	**34**	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77	14.45
Iran Heavy	**31**	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43	14.10
Kuwait																
Kuwait	**31**	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	NA	NA	NA
Abu Dhabi																
Murban	**39**	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26	14.97
Marine (Umm Shaif)		37.00	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.72
Zakum	**40**	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16	14.87
Iraq																
Basrah	**35**	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	NA	NA	NA
Qatar																
Dukhan	**40**	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18	14.89
Marine	**36**	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.96	13.98	14.68
Oman																
Oman	**34**	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98	14.68
		MEDITERRANEAN & AFRICAN CRUDES														
Saudi Arabia																
Arab Light	**34**	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	NA	NA	NA
Iraq																
Kirkuk	**36**	2.21	2.41	3.40	3.48	4.24	7.21	7.29	NA	NA	NA	NA	NA	NA	NA	NA
Libya																
Libya	**40**	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.06	18.25	18.78	19.72
Nigeria																
Nigeria	**34**	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	NA	NA	NA
		VENEZUELAN CRUDES (Reference Prices)														
Venezuela																
Tia Juana	**26**	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	NA	NA	NA
Tia Juana	**31**	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	NA	NA	NA
Oficina	**35**	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	NA	NA	NA

NA = Not Available

(a) Postings in effect on dates shown or thereabouts. Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.
(b) Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.
Note: This series has been discontinued.

SOURCE: Petroleum Intelligence Weekly

Section VI
Table 11

Official Government Selling Prices of Key Foreign Crude Oils(a)
(Dollars per Barrel)

				1974			1975		1976		1977			1979
CRUDE & GRAVITY	1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July	1 Jan.	1 Apr.	1 July
PERSIAN / ARABIAN CRUDES														
Saudi Arabia														
Arab Light	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70	13.34	14.55	18.00
Arab Berri	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22	14.06	16.47	21.32
Arab Medium	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32	12.89	14.05	17.54
Arab Heavy	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02	12.51	13.64	17.17
Iran														
Iran Light	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81	13.45	16.57	22.00 (e)
Iran Heavy	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49	13.06	16.04	19.90 (e)
Kuwait														
Kuwait	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27	12.83	15.80	19.49
Abu Dhabi														
Murban	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26	14.10	17.10	21.56
Umm Shaif	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04	13.78	16.88	21.36
Zakum	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17	14.01	17.01	21.46
Iraq														
Basrah	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46	12.65	12.65 (e)	13.29	15.70	19.96
Kirkuk	NA	NA	NA	NA	NA	NA	11.60	11.65	11.70	12.89	12.85 (e)	13.52	15.95	21.25
Qatar														
Dukhan	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19	14.03	17.04	21.42
Marine	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00	13.77	16.85	21.23
Oman														
Oman	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70	12.74	13.00	13.65 (e)	14.88 (e)	NA
MEDITERRANEAN AND AFRICAN CRUDES														
Iraq														
Kirkuk	NA	NA	NA	NA	10.67	11.74	11.95	NA	NA	NA	13.50	NA	NA	NA
Libya														
Brega	NA	NA	NA	NA	11.20	12.32	12.32	12.32	12.62	13.92	14.20	14.69	18.25	23.45
Nigeria														
Bonny	NA	NA	NA	NA	11.43	12.60	12.84	12.89	13.10	14.33	14.63	14.80	18.50	23.49
OTHER CRUDES														
Indonesia														
Sumatra Light	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55	14.23 (e)	15.51 (e)	NA
Venezuela														
Tia Juana	NA	NA	NA	NA	11.62	11.39	11.12	11.22	11.65	12.72	12.71	13.36	15.76	19.31
Tia Juana	NA	NA	NA	NA	11.05	12.06	12.30	12.30	12.30	12.35	13.54	14.22	16.70	20.90
Oficina	NA	NA	NA	NA	11.49	12.54	12.80	12.80	12.80	13.99 (b)	NA	14.69	17.21	22.45
Ecuador														
Oriente	NA	NA	NA	NA	NA	NA	NA	11.60	11.60	13.00	13.00	13.18	20.60	NA

See notes and sources at end of table

Section VI
Table 11a

Official Government Selling Prices of Key Foreign Crude Oils(a)
(Dollars per Barrel)

	1980		1981		1982	1983	1985	1987
CRUDE & GRAVITY	1 Jan.	1 June	19 Feb.	1 Nov.	1 Jan.	Mar.	Feb.	Feb.
Saudi Arabia								
Arab Light	26.00	28.00	32.00	34.00	34.00	29.00	28.00	17.52
Arab Berri	27.52	29.52	33.52	35.60	35.40	29.50	28.11	17.87
Arab Medium	25.45	27.45	31.45	33.00	32.40	27.40	27.40	16.92
Arab Heavy	25.00	27.00	31.00	31.50	31.00	26.00	26.50	16.27
Iran								
Iran Light	28.50	35.37	37.00	34.60	34.20	28.00	28.05	17.50
Iran Heavy	27.77	34.37	36.00	33.40	32.30	27.30 (e)	27.35	16.89
Kuwait								
Kuwait	25.50	29.50	35.50	33.00	32.30	27.30	27.30	16.67
Abu Dhabi								
Murban	27.56	31.56	36.56	35.70	35.50	29.56	28.15	17.92
Umm Shaif	27.36	31.36	36.36	35.50	35.30	29.36	28.05	17.30
Zakum	27.46	31.46	36.46	35.60	35.40	29.46	28.10	17.82
Iraq								
Basrah	25.96	29.96	35.96	34.67	32.65 (e)	28.46 (e)	NA	17.30
Kirkuk	26.18	30.18	37.50	35.11	34.93	29.83	NA	17.60
Qatar								
Dukhan	27.42	31.42	37.42	35.65	35.45	29.49	28.10	17.82
Marine	27.23	31.23	37.23	35.50	35.30	29.30	28.05	17.67
Oman								
Oman	30.26	35.56	37.56	34.06	35.06	30.06	NA	17.63
Iraq								
Kirkuk	NA	NA	NA	NA	NA	NA	NA	NA
Libya								
Brega	34.67	36.67	41.00	37.50	37.00	30.50	NA	18.67
Nigeria								
Bonny	29.99	36.71	40.02	36.52	36.52	30.00	28.67	18.92
Indonesia								
Sumatra Light	27.50	31.50	35.00	35.00	35.00	29.53	28.53	17.56
Venezuela								
Tia Juana	25.20	29.28	32.88	32.88	32.88	27.88	27.60	16.72
Tia Juana	26.90	32.40	36.00	35.00	35.00	29.84	28.24	17.62
Oficina	28.75	34.25	38.06	37.06	37.06	31.09	28.80	NA
Ecuador								
Oriente	31.00	NA	39.30 (e)	33.15	33.25	28.25	NA	17.02

(e) Estimates by PIW

NA = Not available

(a) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining and equity interest in Middle East oil producing ventures.

(b) Estimate by Petroleum Economist, October 1977

SOURCE: Petroleum Intelligence Weekly

Average United States Retail Gasoline Prices for Selected Cities(a)

	1920	1930	1940	1950	1960	1970	1971	1972	1973	1974	1975	1976	1977
Average U.S.	29.83	19.95	18.41	26.76	31.13	35.69	36.43	36.13	38.82	52.41	57.22	59.47	63.07
Alabama, Birmingham	30.04	20.50	21.71	29.33	31.23	35.23	35.62	36.79	38.57	51.67	53.15	58.25	64.00
Arizona, Phoenix	32.50	20.71	21.25	26.47	26.57	35.07	35.90	35.40	38.28	51.32	57.73	60.48	63.65
Arkansas, Little Rock	30.42	17.63	20.83	29.17	29.48	34.32	35.57	34.65	36.98	50.66	57.34	60.32	64.40
California, Los Angeles	-	-	-	-	29.57	34.15	35.32	34.47	38.04	52.28	57.88	60.49	64.23
California, San Francisco	24.17	20.00	17.88	25.12	32.23	35.82	35.82	35.30	39.07	53.30	59.46	61.49	65.15
Colorado, Denver	31.42	19.50	18.38	26.46	33.40	33.73	36.48	35.15	38.87	52.25	58.18	61.23	64.07
Connecticut, Hartford	33.00	19.13	14.48	23.63	29.32	36.98	37.82	37.65	40.98	54.63	57.57	59.99	63.83
District of Columbia	29.46	17.23	15.08	25.36	30.32	35.73	36.05	37.65	39.07	54.33	58.48	60.40	64.31
Florida, Miami(d)	29.25	21.50	19.33	28.03	31.40	35.07	34.65	35.98	38.15	51.31	54.98	57.15	58.82
Georgia, Atlanta	30.04	22.17	20.42	29.71	31.87	35.01	36.23	36.15	38.57	52.59	58.23	58.99	63.65
Idaho, Boise	33.63	26.41	24.18	30.65	37.42	35.07	34.98	35.11	39.95	53.34	59.82	62.22	65.48
Illinois, Chicago	27.17	18.17	15.58	23.30	31.90	38.62	37.60	36.36	40.61	54.74	58.60	60.90	65.74
Indiana, Indianapolis	-	-	-	-	30.73	37.23	37.57	35.56	39.26	53.17	59.08	59.70	62.74
Iowa, Des Moines	27.42	18.33	16.78	25.08	31.57	35.32	36.32	37.23	38.45	51.17	57.32	60.33	64.79
Kansas, Wichita	26.80	15.30	14.99	24.70	29.15	32.98	32.98	32.40	37.78	51.17	57.32	61.33	63.49
Kentucky, Louisville	-	-	-	-	32.80	36.65	37.48	37.28	40.31	53.83	58.20	61.25	64.90
Louisiana, New Orleans	27.75	15.17	20.66	30.17	29.07	35.73	35.57	34.06	36.48	49.74	56.09	60.40	63.74
Maryland, Baltimore	29.58	18.77	17.88	25.74	31.65	35.65	36.07	37.65	39.23	51.21	56.70	58.48	62.46
Massachusetts, Boston	32.63	17.96	14.19	24.18	26.98	35.73	36.57	35.98	39.07	52.40	55.98	58.23	61.16
Michigan, Detroit	28.12	18.28	15.53	25.17	30.93	33.82	34.35	34.23	39.53	53.86	59.42	57.65	62.07
Mississippi, Jackson	-	-	-	-	32.23	35.48	37.52	34.91	38.48	52.09	54.17	57.15	62.29
Missouri, St. Louis	27.58	17.07	16.43	23.04	27.15	34.07	36.15	35.65	39.20	52.17	57.65	59.48	63.40
Montana, Great Falls	-	-	-	-	36.90	36.36	36.57	35.23	39.95	53.17	59.42	60.85	65.44
Nebraska, Omaha	27.25	20.08	17.97	26.75	32.53	37.82	37.40	37.48	40.03	53.17	59.40	63.15	66.15
New Hampshire, Manchester	32.04	21.12	16.02	24.97	30.07	36.40	38.23	37.65	40.07	54.48	56.48	59.40	62.98
New Jersey, Newark	29.88	17.12	15.78	23.18	28.32	37.40	38.07	36.32	38.57	52.30	54.73	55.65	59.40
New Mexico, Albuquerque	32.25	21.00	19.92	30.25	32.90	36.73	36.90	36.48	38.29	52.65	58.98	59.53	63.59
New York, Buffalo	30.92	18.07	16.30	26.15	27.92	36.11	36.28	37.15	40.07	55.38	58.65	61.37	64.61
New York, New York	31.92	17.36	16.11	26.50	31.40	36.93	39.18	44.56	43.73	59.75	61.15	61.81	64.31
North Carolina, Charlotte	31.33	20.94	20.32	29.37	31.03	35.32	37.36	37.31	39.32	51.99	56.76	60.42	61.95
Ohio, Cincinnati	-	-	-	-	31.40	36.65	37.90	37.90	38.65	53.36	57.19	57.23	60.65
Ohio, Cleveland	-	-	-	-	32.32	36.65	37.90	37.80	38.65	53.36	57.19	57.23	60.40
Oklahoma, Tulsa	27.75	19.25	14.58	26.75	30.48	35.07	35.07	34.73	37.53	50.33	56.44	59.46	63.74
Oregon, Portland	26.79	20.96	20.38	27.98	33.65	35.32	35.82	35.48	38.39	51.70	55.50	57.23	61.49
Pennsylvania, Philadelphia	32.00	20.58	15.49	25.19	28.48	36.48	37.23	36.74	37.90	52.88	53.90	56.73	61.40
Rhode Island, Providence	32.63	17.48	14.66	24.08	27.06	36.23	36.90	36.15	38.32	52.57	55.90	58.57	62.15
South Carolina, Charleston	29.17	20.86	20.10	28.07	30.94	34.32	35.73	36.65	38.40	52.88	54.39	57.90	61.23
Tennessee, Memphis	29.00	19.04	22.22	28.22	29.65	35.57	35.48	35.48	37.48	50.51	57.17	59.65	64.07
Texas, Dallas	-	-	-	-	29.23	32.73	33.9	33.15	34.37	47.17	53.53	56.4	59.9
Texas, El Paso	-	-	-	-	28.88	34.73	36.9	35.9	36.29	47.98	55.95	57.4	60.65
Texas, Houston	29.13	18.83	17.17	24	29.32	32.23	32.82	32.34	33.9	47.28	52.4	56.4	60.15
Utah, Salt Lake City	31.88	22.67	19.88	24.42	30.9	34.32	34.98	35.56	37.37	50.17	56.32	58.45	60.94
Virginia, Norfolk	30.08	19.86	20.38	27.33	31.23	35.57	35.23	36.9	39.48	52.73	56.23	60.07	63.98
Washington, Seattle	-	-	-	-	29.57	36.4	36.73	36.35	39.42	52.22	57.18	59.98	64.23
Washington, Spokane	28.92	23.83	21.92	30.63	36.73	36.4	36.57	35.95	39.07	52.72	56.68	60.13	63.87
West Virginia, Charleston	30.33	20.46	20.68	29.23	31.32	35.73	37.73	38.4	39.56	51.23	57.57	59.07	63.14
Wisconsin, Milwaukee	27.35	17.43	19.15	24.9	30.98	33.15	34.48	33.73	38.37	52.13	58.15	58.4	61.4

See notes and sources at end of table

Average United States Retail Gasoline Prices for Selected Cities(a)

Area(b)	1978		1979		1980		1981		1982		1983		1984		1985	
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded
U.S. City Average	0.627	0.670	0.857	0.903	1.191	1.245	1.311	1.378	1.222	1.296	1.157	1.241	1.129	1.212	1.115	1.203
Anchorage, Alaska	0.744	0.767	0.921	0.952	1.241	1.275	1.408	1.465	1.380	1.446	1.253	1.339	1.204	1.294	1.180	1.237
Atlanta, Ga.	0.624	0.668	0.843	0.890	1.197	1.251	1.328	1.397	1.234	1.319	1.143	1.248	1.110	1.225	1.094	1.197
Baltimore, Md.	0.613	0.666	0.844	0.891	1.204	1.251	1.334	1.389	1.288	1.335	1.244	1.296	1.092	1.164	1.092	1.163
Boston, Ma.	0.623	0.660	0.857	0.899	1.199	1.241	1.337	1.391	1.234	1.283	1.155	1.225	1.078	1.175	1.082	1.173
Buffalo, NY.	0.644	0.687	0.899	0.948	1.235	1.280	1.336	1.394	1.248	1.306	1.222	1.288	1.174	1.249	1.145	1.208
Chicago Ill-NW Ind.	0.680	0.730	0.925	0.979	1.246	1.304	1.344	1.410	1.264	1.321	1.223	1.298	1.206	1.284	1.176	1.258
Cincinnati, Oh-Ky-Ind.	0.618	0.655	0.842	0.882	1.154	1.206	1.275	1.345	1.217	1.293	1.187	1.257	1.153	1.218	1.090	1.149
Cleveland, Oh	0.621	0.665	0.839	0.884	1.160	1.203	1.304	1.385	1.269	1.327	1.175	1.248	1.130	1.214	1.081	1.182
Dallas-Ft Worth, Tx	0.579	0.617	0.789	0.833	1.132	1.186	1.245	1.307	1.140	1.209	1.081	1.158	1.072	1.163	1.104	1.142
Denver-Boulder, Colo.	0.612	0.663	0.838	0.886	1.150	1.217	1.259	1.330	1.197	1.273	1.091	1.197	1.049	1.164	1.056	1.155
Detroit, Mich.	0.643	0.696	0.891	0.947	1.242	1.303	1.335	1.395	1.247	1.304	1.227	1.280	1.236	1.278	1.173	1.264
Honolulu, Hawaii	0.759	0.764	0.937	0.976	1.298	1.355	1.409	1.567	1.472	1.542	1.400	1.462	1.368	1.443	1.274	1.396
Houston, Tx	0.567	0.613	0.794	0.835	1.139	1.183	1.261	1.313	1.143	1.212	1.040	1.132	1.015	1.116	1.023	1.092
Kansas City, Mo-Kn	0.604	0.644	0.843	0.886	1.137	1.190	1.237	1.298	1.195	1.262	1.155	1.226	1.082	1.142	1.048	1.124
Los Angeles, Long Beach, Anaheim, Ca.	0.644	0.691	0.892	0.943	1.213	1.271	1.337	1.409	1.232	1.318	1.166	1.215	1.102	1.211	1.088	1.191
Miami, Fla	0.611	0.661	0.841	0.892	1.186	1.235	1.319	1.389	1.257	1.364	1.207	1.326	1.126	1.215	1.115	1.205
Milwaukee, Wisc	0.595	0.631	0.819	0.864	1.139	1.198	1.273	1.329	1.245	1.286	1.190	1.224	1.147	1.202	1.129	1.197
Minneapolis, St. Paul, Minn-Wisc.	0.618	0.654	0.860	0.901	1.175	1.231	1.294	1.360	1.253	1.328	1.211	1.284	1.171	1.223	1.174	1.247
New York, NY-NE N.J.	0.632	0.675	0.882	0.927	1.241	1.286	1.355	1.413	1.249	1.319	1.181	1.257	1.116	1.189	1.114	1.185
NE Penn	0.610	0.650	0.837	0.879	1.178	1.218	1.306	1.353	1.197	1.242	1.157	1.208	1.137	1.204	1.142	1.227
Philadelphia, Pa-NJ.	0.618	0.658	0.855	0.904	1.192	1.233	1.309	1.365	1.188	1.255	1.149	1.210	1.141	1.213	1.113	1.164
Pittsburgh, Pa.	0.628	0.663	0.857	0.893	1.205	1.242	1.356	1.409	1.234	1.312	1.147	1.233	1.147	1.238	1.149	1.213
Portland, Ore-Wash	0.636	0.681	0.870	0.907	1.193	1.226	1.317	1.381	1.257	1.337	1.121	1.230	1.116	1.222	1.115	1.200
St. Louis, Mo-Ill.	0.607	0.656	0.851	0.897	1.145	1.208	1.230	1.299	1.151	1.213	1.111	1.164	1.086	1.142	1.064	1.137
San Diego, Ca.	0.636	0.691	0.881	0.932	1.215	1.280	1.323	1.408	1.240	1.339	1.157	1.253	1.162	1.212	1.119	1.248
San Fran-Oakland, Ca.	0.661	0.717	0.899	0.961	1.243	1.310	1.355	1.436	1.260	1.353	1.154	1.290	1.156	1.302	1.141	1.252
Seattle-Everett, Wash.	0.650	0.677	0.877	0.917	1.211	1.253	1.335	1.401	1.227	1.271	1.145	1.182	1.178	1.217	1.152	1.221
Washington, DC-Md-Va.	0.651	0.702	0.853	0.906	1.224	1.276	1.334	1.393	1.256	1.304	1.232	1.288	1.203	1.302	1.148	1.254
Region (c)																
Northeast	0.631	0.672	0.870	0.913	1.220	1.260	1.344	1.396	1.238	1.298	1.181	1.248	1.133	1.204	1.124	1.201
North Central	0.628	0.671	0.861	0.910	1.183	1.244	1.303	1.370	1.233	1.298	1.191	1.261	1.157	1.233	1.133	1.219
South	0.611	0.654	0.831	0.863	1.172	1.223	1.293	1.360	1.196	1.272	1.132	1.217	1.105	1.192	1.101	1.181
West	0.643	0.695	0.879	0.936	1.201	1.267	1.323	1.405	1.233	1.325	1.132	1.238	1.123	1.220	1.115	1.209

See notes and sources at end of table

Average United States Retail Gasoline Prices for Selected Cities(a)

Area(b)	1986		1987		1988		1989		1990
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Unleaded
U.S. City Average	0.857	0.927	0.897	0.948	0.900	0.946	0.997	1.022	1.164
Anchorage, Alaska	0.950	0.997	NA	NA	NA	NA	NA	NA	NA
Atlanta, Ga.	0.769	0.888	NA	NA	NA	NA	NA	NA	NA
Baltimore, Md.	0.877	0.921	0.913	0.935	0.956	0.980	NA	1.042	1.158
Boston, Ma.	0.857	0.922	0.883	0.929	0.923	0.971	NA	1.027	1.186
Buffalo, NY.	0.861	0.890	NA	NA	NA	NA	NA	NA	NA
Chicago Ill-NW Ind.	0.912	0.953	0.969	1.004	0.982	1.016	NA	1.107	1.278
Cincinnati, Oh-Ky-Ind.	0.812	0.853	NA	NA	NA	NA	NA	NA	NA
Cleveland, Oh	0.820	0.902	0.880	0.941	NA	0.948	NA	1.019	1.179
Dallas-Ft Worth, Tx	0.789	0.831	0.856	0.881	0.875	0.885	0.955	0.937	1.093
Denver-Boulder, Colo.	0.788	0.873	NA	NA	NA	NA	NA	NA	NA
Detroit, Mich.	0.833	0.944	0.859	0.972	0.911	0.969	NA	1.027	1.156
Honolulu, Hawaii	1.077	1.221	NA	NA	NA	NA	NA	NA	NA
Houston, Tx	0.753	0.796	0.852	0.880	0.852	0.871	NA	0.958	1.119
Kansas City, Mo-Kn	0.758	0.817	NA	NA	NA	NA	NA	NA	NA
Los Angeles, Long Beach, Anaheim, Ca.	0.879	0.956	0.901	0.931	0.902	0.910	0.969	0.986	1.140
Miami, Fla	0.895	0.953	0.949	0.983	NA	0.967	NA	0.995	1.099
Milwaukee, Wisc	0.857	0.899	NA	NA	NA	NA	NA	NA	NA
Minneapolis, St. Paul, Minn-Wisc.	0.902	0.965	NA	NA	NA	NA	NA	NA	NA
New York, NY-NE N.J.	0.859	0.908	0.903	0.936	0.919	0.958	NA	1.039	1.157
NE Penn	0.869	0.910	NA	NA	NA	NA	NA	NA	NA
Philadelphia, Pa-NJ.	0.869	0.880	0.891	0.895	0.906	0.895	NA	0.979	1.139
Pittsburgh, Pa.	0.855	0.883	0.887	0.899	0.882	0.882	NA	0.967	1.119
Portland, Ore-Wash	0.839	0.922	NA	NA	NA	NA	NA	NA	NA
St. Louis, Mo-Ill.	0.797	0.865	0.854	0.897	0.865	0.903	0.945	0.958	1.084
San Diego, Ca.	0.876	1.004	NA	NA	NA	NA	NA	NA	NA
San Fran-Oakland, Ca.	0.869	0.976	0.870	0.955	0.907	1.011	0.977	1.078	1.240
Seattle-Everett, Wash.	0.891	0.962	NA	NA	NA	NA	NA	NA	NA
Washington, DC-Md-Va.	0.890	0.983	0.911	0.998	NA	1.044	NA	1.109	1.245
Region (c)									
Northeast	0.877	0.931	0.900	0.946	0.908	0.954	1.020	1.029	1.169
North Central	0.859	0.921	0.914	0.958	0.914	0.952	1.018	1.028	1.175
South	0.831	0.904	0.883	0.943	0.886	0.937	0.998	1.006	1.142
West	0.873	0.957	0.896	0.946	0.901	0.945	0.987	1.030	1.180

(a) Regular grade gasoline at full service stations, retail price including tax. Beginning in 1978, prices are for leaded and unleaded. Beginning in 1990, prices are for regular unleaded only.

(b) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are the more extensive Standard Consolidated Areas.

(c) Regions are defined as the four Census regions.

(d) Prices prior to 1970 are for Jacksonville.

SOURCE: 1920-1950: Texacc, Inc.
1960-1977: Platt's Oilgram Price Service
1978-1990: U.S. Bureau of Labor Statistics

Section VI
Table 14

Spot Prices for Selected World Crude Oils
(Mid-month--Dollars per Barrel)

Crude/Type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1984												
Brent(a)	29.30	29.33	29.85	30.05	29.90	29.28	28.38	28.43	28.48	28.30	27.95	26.95
Dubai(b)	27.75	27.60	27.85	28.03	28.08	28.05	27.50	27.18	27.35	27.33	27.20	26.53
Forcados(c)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	28.35	28.50	28.50	29.05	28.00	27.40
ANS(d)	28.35	28.50	29.68	29.53	29.30	29.38	28.48	28.70	28.70	28.13	27.95	26.33
WTI(e)	29.73	29.73	30.73	30.73	30.55	30.08	28.83	29.23	29.28	28.83	28.33	26.35
1985												
Brent	27.05	28.30	27.75	28.00	26.40	26.25	26.30	27.10	27.20	28.15	29.60	25.85
Dubai	27.45	27.25	27.13	26.75	25.53	25.45	25.53	26.25	26.08	26.80	26.85	26.55
Forcados	27.35	28.55	28.25	28.15	26.80	26.45	26.43	27.35	27.95	28.85	30.15	26.85
ANS	25.95	28.28	28.35	28.50	26.90	25.85	26.03	27.08	27.18	27.43	29.05	25.58
WTI	25.95	27.78	28.33	29.13	27.83	27.33	27.33	28.03	27.93	29.33	30.98	27.23
1986												
Brent	23.25	17.00	13.30	12.55	14.25	12.10	9.30	14.70	14.55	13.50	15.15	15.75
Dubai	23.70	14.65	11.30	10.68	11.48	10.40	7.15	12.95	14.30	13.15	14.05	14.35
Forcados	25.85	17.35	14.10	13.35	14.68	12.00	9.05	14.45	14.30	13.10	14.50	15.80
ANS	23.95	15.15	12.73	11.85	13.93	12.05	10.30	13.98	13.53	12.93	14.43	15.23
WTI	25.18	16.03	12.73	12.68	15.68	13.68	12.05	15.83	15.08	14.38	15.68	16.13
1987												
Brent	18.83	17.40	17.88	17.58	18.80	18.75	19.80	19.20	18.30	18.75	17.95	16.95
Dubai	17.40	16.77	16.87	16.98	17.00	17.25	17.60	17.25	16.90	16.95	16.45	15.10
Forcados	18.85	17.75	17.98	17.53	18.65	18.75	19.80	19.15	18.35	18.90	18.05	16.15
ANS	18.60	17.05	17.75	17.38	18.75	18.85	20.05	19.15	18.30	18.55	17.40	14.65
WTI	19.13	17.83	18.38	17.98	19.55	19.85	21.55	20.55	19.60	19.75	18.90	16.65
1988												
Brent	16.55	15.90	14.25	16.90	16.55	15.60	14.35	14.95	13.70	13.35	13.00	15.15
Dubai	15.25	15.10	12.90	15.00	15.00	13.75	12.45	13.05	11.90	11.15	10.35	12.80
Forcados	16.70	15.90	14.25	16.85	16.50	15.55	14.25	14.90	13.40	13.45	13.05	15.75
ANS	15.25	14.95	13.90	16.20	15.55	14.80	13.80	14.25	13.45	12.85	11.75	14.50
WTI	16.90	16.75	15.65	18.25	17.50	16.55	14.85	15.55	14.90	14.90	14.20	16.35
1989												
Brent	17.10	15.85	18.50	19.30	18.30	16.50	17.75	17.05	18.00	19.25	18.60	19.45
Dubai	14.40	14.15	16.20	17.00	15.45	14.70	15.45	15.00	15.75	16.40	15.95	16.90
Forcados	17.85	16.50	19.15	19.95	19.10	16.30	17.40	16.80	18.20	19.55	18.85	20.05
ANS	16.95	15.95	17.75	19.55	17.40	17.40	17.45	16.70	17.30	18.30	17.90	19.20
WTI	18.85	17.40	19.75	20.65	20.05	20.70	20.35	18.65	19.95	20.60	19.65	20.65
1990												
Brent	20.35	20.11	18.38	16.04	17.99	15.65	17.39	26.53	33.10	39.33	31.35	26.80
Dubai	16.98	16.59	15.81	13.49	15.32	13.40	14.91	24.05	28.55	34.48	26.99	22.15
Forcados	21.70	20.39	18.28	15.35	17.30	14.83	16.79	27.33	33.95	40.18	31.85	27.55
ANS	19.81	20.69	18.18	14.62	16.59	14.48	15.91	25.80	31.16	34.85	28.31	24.68
WTI	22.36	22.89	20.05	17.77	19.71	17.07	18.36	26.52	31.71	39.35	31.16	26.53

See notes and sources at end of table

Section VI
Table 14a

Spot Prices for Selected World Crude Oils
(Mid-month--Dollars per Barrel)

Crude/Type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1991												
Brent	28.65	17.30	18.43	20.20	19.27	17.75	19.53	19.28	20.55	22.72	21.78	18.38
Dubai	24.10	13.08	14.19	15.55	16.00	15.39	16.23	16.22	18.19	19.21	18.85	14.99
Forcados	28.85	18.00	18.18	19.52	18.52	17.25	19.36	19.41	21.10	23.37	22.45	18.98
ANS	26.40	15.43	17.86	19.55	17.72	17.03	18.36	18.17	18.97	20.90	19.53	16.73
WTI	30.00	20.68	19.86	21.48	21.02	19.65	21.46	21.37	21.82	23.89	22.78	19.71

(a) Brent is from the North Sea, United Kingdom.
(b) Dubai from Dubai, part of United Arab Emirates.
(c) Forcados from Nigeria.
(d) ANS (Alaskan North Slope) from the United States.
(e) WTI (West Taxas Intermediate) from the United States.

SOURCE: Platt's Oilgram Price Report.

Section VI
Table 15

Historical Average U.S. Gasoline Prices: 1918-1946
(Cents per Gallon)

Year	Service Station Price (Excluding Tax)	State and Federal Taxes	Service Station Price (Including Tax)
1918	25.12	–	25.12
1919	25.41	0.06	25.47
1920	29.74	0.09	29.83
1921	26.11	0.20	26.31
1922	24.82	0.38	25.20
1923	21.06	0.91	21.97
1924	19.47	1.48	20.95
1925	20.09	2.11	22.20
1926	20.97	2.41	23.38
1927	18.28	2.81	21.09
1928	17.90	3.04	20.94
1929	17.92	3.50	21.42
1930	16.16	3.79	19.95
1931	12.98	4.00	16.98
1932	13.30	4.63	17.93
1933	12.41	5.41	17.82
1934	13.64	5.21	18.85
1935	13.55	5.29	18.84
1936	14.10	5.35	19.45
1937	14.59	5.40	19.99
1938	14.07	5.44	19.51
1939	13.31	5.44	18.75
1940	12.75	5.66	18.41
1941	13.30	5.93	19.23
1942	14.46	5.97	20.43
1943	14.56	5.97	20.53
1944	14.62	5.97	20.59
1945	14.48	6.02	20.50
1946	14.69	6.08	20.77

SOURCE: Texaco, Inc.

BASIC PETROLEUM DATA BOOK

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Section VII
Table 1

Estimated World Demand for Refined Petroleum Products by Area (Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Europe	Subtotal	Communist Nations	USSR/ E. Europe(a)	Total World
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	NA	NA	N.A.
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	NA	NA	N.A.
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	NA	NA	N.A.
1953	2,776,778	163,237	328,243	3,268,258	57,145	75,196	204,607	550,652	4,155,858	NA	NA	N.A.
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	NA	NA	N.A.
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	NA	NA	N.A.
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	286,546	836,671	5,136,104	NA	NA	N.A.
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	NA	NA	N.A.
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	NA	NA	N.A.
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	NA	7,229,097
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	NA	7,818,752
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	NA	8,424,782
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	NA	9,097,773
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	NA	9,835,302
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	NA	10,573,703
1965	4,202,039	416,873	766,617	5,385,529	285,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	NA	11,385,224
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	NA	12,251,156
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	NA	12,992,982
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	NA	14,252,325
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	NA	15,587,586
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	NA	16,681,650
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	2,622,268	NA	17,698,723
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	NA	18,744,793
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	NA	20,425,752
1974	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,599	16,755,836	3,034,212	NA	19,790,048
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	NA	19,343,365
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	NA	21,175,836
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	NA	22,242,275
1978	6,879,017	633,638	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	NA	22,964,248
1979	6,757,077	698,975	1,622,425	9,078,477	702,625	496,400	4,100,775	5,347,250	23,755,127	NA	4,029,600	23,755,127
1980	6,242,445	671,510	1,689,090	8,603,045	739,320	530,700	3,903,390	4,974,950	22,923,805	NA	4,172,400	22,923,805
1981	5,861,058	642,400	1,700,900	8,204,358	777,450	556,625	3,819,725	4,666,525	22,172,908	NA	4,148,225	22,172,908
1982	5,582,938	571,225	1,739,225	7,893,388	799,350	587,650	3,677,375	4,449,350	21,502,413	NA	4,095,300	21,502,413
1983	5,559,364	538,375	1,708,200	7,805,939	885,125	594,950	3,690,150	4,358,100	21,358,389	NA	4,024,125	21,358,389
1984	5,755,575	521,550	1,700,070	7,977,195	929,640	596,580	3,833,850	4,398,250	21,776,155	NA	4,040,640	21,776,155
1985	5,740,143	543,850	1,695,425	7,979,418	978,200	629,625	3,806,950	4,330,725	21,767,293	NA	4,042,375	21,767,293
1986	5,942,429	538,375	1,735,575	8,216,379	970,900	622,325	3,991,275	4,504,100	22,391,154	NA	4,086,175	22,391,154
1987	6,082,742	552,975	1,819,525	8,455,242	987,325	646,050	4,113,550	4,513,225	22,785,142	NA	4,069,750	22,785,142
1988	6,325,692	581,940	1,855,620	8,763,252	1,026,630	666,120	4,437,750	4,571,625	23,511,507	NA	4,046,130	23,511,507
1989	6,323,681	605,900	1,921,725	8,851,306	1,065,800	667,950	4,730,400	4,566,150	23,880,181	NA	3,998,575	23,880,181

See notes and sources at end of table

Estimated World Demand for Refined Petroleum Products by Area
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Europe	Subtotal	Communist Nations	USSR/ E. Europe(a)	Total World
1990	6,200,801	589,475	1,971,000	8,761,276	1,107,775	717,225	4,964,000	4,761,425	23,875,926	NA	3,564,225	23,875,926

NA = Not Available

(a) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1979, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1950-1958: U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1974: U.S. Bureau of Mines, International Petroleum Annual
1975-1979: U.S. Energy Information Administration, International Energy Annual
1979-1990: United States: U.S. Energy Information Administration, Petroleum Supply Annual
Rest of World: BP Statistical Review of World Energy

Section VII
Table 2

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production														
Year	Crude Oil	Lease Con-densate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1947	5,087	(f)	362	437	2	5,888	93	12	5,993	(14)	6,007	69	451	5,487
1948	5,520	(f)	401	514	1	6,436	84	8	6,528	293	6,235	84	368	5,783
1949	5,046	(f)	430	645	1	6,123	42	2	6,167	- 8	6,175	42	327	5,806
1950	5,407	(f)	499	850	-	6,756	98	2	6,856	- 56	6,912	51	305	6,556
1951	6,158	(f)	561	844	1	7,564	49	7	7,620	101	7,519	32	422	7,065
1952	6,256	(f)	611	952	1	7,820	20	7	7,847	108	7,739	17	432	7,290
1953	6,458	(f)	654	1,034	1	8,147	9	20	8,176	142	8,034	24	402	7,608
1954	6,342	(f)	691	1,052	1	8,086	7	23	8,117	- 29	8,146	27	355	7,764
1955	6,807	(f)	771	1,248	1	8,827	9	34	8,870	–	8,870	38	368	8,464
1956	7,151	(f)	800	1,436	1	9,388	8	43	9,439	179	9,260	47	430	8,783
1957	7,170	(f)	808	1,574	1	9,553	18	42	9,613	167	9,446	51	568	8,827
1958	6,710	(f)	808	1,700	1	9,218	N.A.	64	9,282	(140)	9,422	29	276	9,117
1959	7,054	(f)	879	1,780	1	9,713	N.A.	86	9,799	+	51	11	211	9,526
1960	7,035	(f)	929	1,815	1	9,780	N.A.	146	9,926	- 83	10,009	9	202	9,797
1961	7,183	(f)	991	1,917	-	10,091	N.A.	179	10,270	111	10,159	9	174	9,976
1962	7,332	(f)	1,021	2,082	-	10,435	N.A.	175	10,610	32	32	9	168	10,400
1963	7,542	(f)	1,098	2,123	-	10,763	N.A.	202	10,965	3	10,962	10	208	10,743
1964	7,614	(f)	1,154	2,259	-	11,027	N.A.	219	11,246	10	11,236	10	202	11,023
1965	7,804	(f)	1,210	2,468	-	11,482	N.A.	220	11,702	(8)	11,710	10	187	11,512
1966	8,295	(f)	1,284	2,573	-	12,152	N.A.	245	12,397	104	12,293	10	198	12,084
1967	8,810	(f)	1,409	2,537	-	12,757	N.A.	292	13,049	173	12,876	9	307	12,560
1968	8,660	436	1,504	2,840	9	13,448	20	319	13,787	152	13,635	11	231	13,393
1969	8,778	460	1,590	3,166	12	14,005	- 7	335	14,333	- 48	14,381	12	233	14,137
1970	9,180	457	1,660	3,419	17	14,733	(21)	359	15,071	103	14,968	12	259	14,697
1971	9,032	431	1,693	3,926	17	15,098	41	382	15,521	71	15,449	12	224	15,213
1972	8,998	443	1,744	4,741	28	15,954	28	388	16,370	(232)	16,602	13	222	16,367
1973	8,784	424	1,738	6,256	30	17,232	3	3	17,688	135	17,552	13	231	17,308
1974	8,375	399	1,688	6,112	36	16,610	(25)	480	17,065	179	16,886	13	221	16,653
1975	8,007	367	1,633	6,056	38	16,101	17	460	16,578	32	16,545	13	206	16,322
1976	7,776	355	1,603	7,313	38	17,086	77	479	17,642	- 58	17,698	14	223	17,461
1977	7,875	370	1,618	8,787	50	18,700	- 6	524	19,218	529	18,689	16	243	18,431
1978	8,353	355	1,567	8,202	53	18,530	(57)	496	18,969	(257)	19,226	17	362	18,847
1979	8,181	371	1,584	8,389	44	18,572	(11)	527	19,088	107	18,981	16	472	18,513
1980	8,210	386	1,573	6,865	44	17,078	34	597	17,709	94	17,615	28	544	17,056
1981	8,177	395	1,609	5,740	50	15,971	83	508	16,562	(176)	16,738	5	595	16,058
1982	8,262	387	1,550	4,948	53	15,200	71	531	15,802	(321)	16,123	3	815	15,296
1983	8,688	(f)	1,559	4,817	53	15,117	114	488	15,719	(254)	15,973	2	739	15,231
1984	8,879	(f)	1,630	5,240	45	15,794	185	553	16,532	85	16,447	2	722	15,726

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production													
Year	Crude Oil	Lease Condensate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1985	8,971	(f)	1,609	4,949	55	15,584	145	557	16,286	(220)	16,506	1	781	15,726
Jan.	8,740	(f)	1,628	4,192							16,902	1	792	16,109
Feb.	9,025	(f)	1,623	3,815							16,979	1	857	16,121
Mar.	9,095	(f)	1,600	4,625							16,068	1	694	15,373
Apr.	9,043	(f)	1,582	5,208							16,237	1	764	15,472
May	9,132	(f)	1,594	5,554							16,210	1	705	15,504
Jun.	9,022	(f)	1,597	4,774							16,176	1	692	15,483
Jul.	8,949	(f)	1,568	4,724							16,110	1	675	15,434
Aug.	8,803	(f)	1,594	4,602							16,809	0	749	16,060
Sep.	8,954	(f)	1,575	4,899							15,905	0	806	15,099
Oct.	8,970	(f)	1,610	5,101							16,634	0	690	15,944
Nov.	8,902	(f)	1,660	6,063							16,539	0	1,036	15,503
Dec.	9,030	(f)	1,680	5,757							17,537	1	925	16,611
1986	8,680	(f)	1,551	6,176	58	16,465	139	616	17,220	152	17,068	0	785	16,283
Jan.	9,137	(f)	1,711	5,522							16,948	1	859	16,088
Feb.	9,173	(f)	1,696	4,652							17,062	0	876	16,186
Mar.	9,013	(f)	1,604	4,653							17,008	0	732	16,276
Apr.	8,864	(f)	1,523	5,376							16,795	0	850	15,945
May	8,838	(f)	1,543	6,364							16,717	0	724	15,993
Jun.	8,623	(f)	1,504	6,784							16,691	0	642	16,049
Jul.	8,660	(f)	1,507	6,890							16,992	0	685	16,307
Aug.	8,374	(f)	1,445	7,117							17,486	0	868	16,618
Sep.	8,328	(f)	1,468	7,043							16,623	0	714	15,909
Oct.	8,419	(f)	1,477	6,390							17,433	0	831	16,602
Nov.	8,412	(f)	1,569	6,547							17,042	0	821	16,221
Dec.	8,352	(f)	1,571	6,652							17,951	0	820	17,131
1987	8,349	(f)	1,595	6,605	64	16,613	145	639	17,397	(39)	17,436	0	764	16,665
Jan.	8,480	(f)	1,582	6,261							17,388	1	703	16,684
Feb.	8,389	(f)	1,618	5,940							17,885	0	977	16,908
Mar.	8,464	(f)	1,598	5,699							16,886	1	720	16,165
Apr.	8,498	(f)	1,590	5,854							17,394	0	870	16,524
May	8,336	(f)	1,585	5,981							16,692	0	666	16,026
Jun.	8,279	(f)	1,578	6,705							17,499	0	669	16,830
Jul.	8,251	(f)	1,582	7,512							17,793	0	680	17,113
Aug.	8,210	(f)	1,571	7,391							17,010	0	664	16,346
Sep.	8,205	(f)	1,582	7,114							17,465	0	795	16,670
Oct.	8,364	(f)	1,602	7,011							17,587	0	646	16,941
Nov.	8,397	(f)	1,637	6,971							17,080	0	737	16,343
Dec.	8,318	(f)	1,621	6,765							18,502	0	1,057	17,445

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production													
Year	Crude Oil	Lease Con-densate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1988	8,140	(f)	1,625	7,351	53	17,169	196	655	18,020	(79)	18,099	0	815	17,284
Jan.	8,250	(f)	1,579	7,114							18,288	0	885	17,403
Feb.	8,374	(f)	1,605	7,207							18,624	0	864	17,760
Mar.	8,374	(f)	1,636	6,921							18,446	0	834	17,612
Apr.	8,288	(f)	1,618	7,192							17,237	0	676	16,561
May	8,229	(f)	1,627	7,447							17,011	0	814	16,197
Jun	8,170	(f)	1,616	7,169							17,907	0	938	17,059
Jul	8,040	(f)	1,618	7,255							17,522	1	826	16,695
Aug.	8,079	(f)	1,616	7,360							18,296	0	814	17,482
Sep.	7,895	(f)	1,621	7,422							17,745	0	673	17,072
Oct.	8,023	(f)	1,661	7,787							18,312	0	732	17,580
Nov.	8,023	(f)	1,666	7,625							18,337	0	717	17,620
Dec.	7,942	(f)	1,634	7,700							19,373	0	1,008	18,365
1989	7,613	(f)	1,546	8,005	60	17,224	200	661	18,085	(99)	18,184	0	859	17,325
Jan.	7,937	(f)	1,664	8,190							18,030	0	761	17,269
Feb.	7,788	(f)	1,607	7,948							18,795	0	875	17,920
Mar.	7,575	(f)	1,650	7,381							18,849	0	860	17,989
Apr.	7,772	(f)	1,674	8,019							17,434	0	810	16,624
May	7,816	(f)	1,620	7,701							17,337	0	791	16,546
Jun.	7,624	(f)	1,507	7,922							18,472	0	975	17,497
Jul.	7,444	(f)	1,541	8,294							17,233	0	780	16,453
Aug.	7,544	(f)	1,504	8,528							18,327	0	967	17,360
Sep.	7,548	(f)	1,480	7,943							17,451	1	655	16,795
Oct.	7,453	(f)	1,478	8,264							18,095	0	791	17,304
Nov.	7,536	(f)	1,483	8,300							18,268	0	975	17,311
Dec.	7,337	(f)	1,343	7,567							19,925	0	1,067	18,858
1990	7,355	(f)	1,559	7,991	78	16,983	258	711	17,952	107	17,845	0	857	16,988
Jan.	7,546	(f)	1,541	9,173							17,673	0	709	16,964
Feb.	7,497	(f)	1,570	8,070							17,997	0	822	17,175
Mar.	7,433	(f)	1,526	7,921							17,967	0	880	17,087
Apr.	7,407	(f)	1,493	7,820							17,539	0	761	16,778
May	7,328	(f)	1,502	8,745							17,605	0	690	16,915
Jun.	7,106	(f)	1,458	8,248							17,968	0	803	17,165
Jul.	7,173	(f)	1,484	9,048							17,780	0	696	17,084
Aug.	7,287	(f)	1,575	8,549							18,900	0	850	18,050
Sep.	7,224	(f)	1,597	7,361							17,359	0	847	16,512
Oct.	7,542	(f)	1,667	6,717							17,883	0	949	16,934
Nov.	7,387	(f)	1,690	7,003							17,780	0	1,085	16,695
Dec.	7,338	(f)	1,604	6,439							17,681	0	1,187	16,494

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

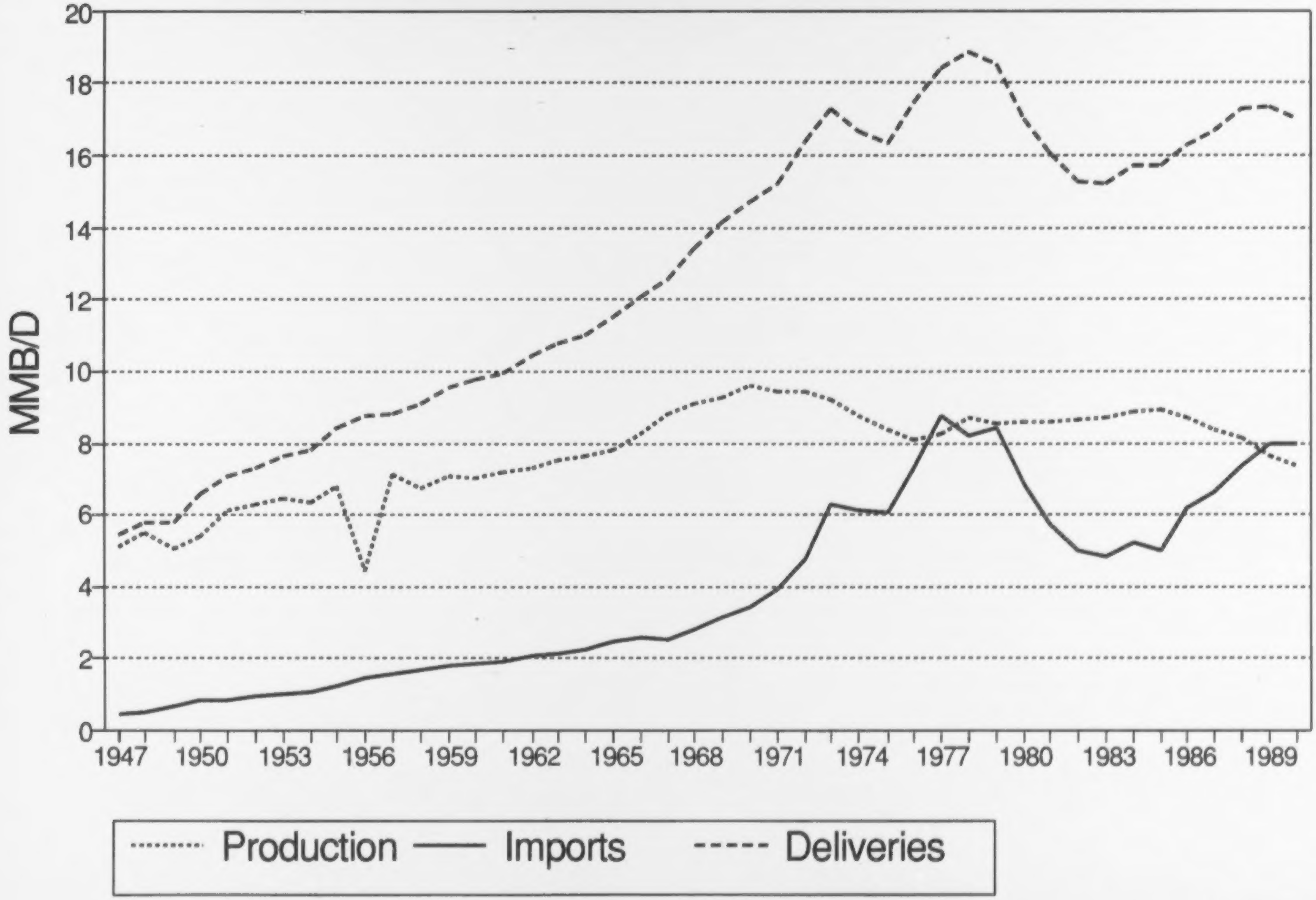
	Production													
Year	Crude Oil	Lease Con-densate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1991(p)		(f)												
Jan.	7,418	(f)	1,635	7,066							18,081	0	1,199	16,882
Feb.	7,548	(f)	1,690	6,844							17,725	0	1,441	16,284
Mar.	7,481	(f)	1,670	6,819							17,613	0	1,186	16,427
Apr.	7,467	(f)	1,656	7,374							16,840	0	737	16,103
May	7,368	(f)	1,647	8,496							17,247	0	1,149	16,098
Jun.	7,282	(f)	1,616	8,177							17,685	0	921	16,764
Jul.	7,326	(f)	1,608	7,714							17,873	0	963	16,910
Aug.	7,272	(f)	1,617	8,622							17,970	0	837	17,133
Sep.	7,332	(f)	1,609	7,745							17,489	0	785	16,704

(a) Excludes oil imported to the strategic petroleum reserve.
(b) Includes benzol, other hydrocarbons, and hydrogen.
(c) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968 prior years include adjustments where available.
(d) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply.
(e) Data do not add due to independent rounding
(f) Separate data available only from 1968 to 1982. Other years, included with crude oil.
(p) Preliminary

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1975-1980: Energy Information Administration, Annual Petroleum Statements
1981-1991: Energy Information Administration, Petroleum Supply Annual

Section VII
Table 2d

U.S. CRUDE OIL PRODUCTION, PETROLEUM IMPORTS AND DELIVERIES



Source: US Department of Energy, US Bureau of Mines

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand(f)
1947	2,306	1	2,307	92,303	-1	2,308	130	2,178
1948	2,513	1	2,514	103,756	32	2,482	102	2,380
1949	2,632	-	2,632	111,443	21	2,611	108	2,503
1950	2,806	-	2,806	116,769	14	2,792	68	2,724
1951	3,126	1	3,127	135,306	25	3,102	110	2,992
1952	3,219	4	3,223	135,509	1	3,222	99	3,123
1953	3,470	1	3,471	157,872	64	3,407	104	3,303
1954	3,456	-	3,456	155,400	-7	3,463	94	3,369
1955	3,764	1	3,765	165,433	27	3,738	95	3,643
1956	3,904	4	3,908	187,271	59	3,849	97	3,752
1957	3,940	8	3,948	196,776	26	3,922	106	3,816
1958	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959(b)	4,079	36	4,115	187,613	-	4,115	46	4,069
1960	4,160	27	4,187	194,774	20	4,167	37	4,130
1961	4,199	29	4,228	195,830	3	4,225	25	4,200
1962	4,338	38	4,376	190,138	16	4,360	18	4,342
1963	4,452	44	4,496	190,937	6	4,490	19	4,471
1964	4,539	29	4,568	193,633	21	4,547	17	4,530
1965	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,911	43	4,954	194,177	30	4,924	11	4,913
1967	5,057	42	5,099	207,980	37	5,062	14	5,048
1968	5,301	59	5,360	211,526	10	5,350	6	5,344
1969	5,557	62	5,619	217,392	16	5,603	7	5,596
1970	5,768	67	5,835	214,348	-8	5,843	4	5,839
1971	6,034	59	6,093	223,771	25	6,068	5	6,063
1972	6,339	68	6,407	217,149	-18	6,425	2	6,423
1973	6,580	132	6,712	213,417	-11	6,723	5	6,718
1974	6,404	204	6,608	221,881 (c)	23	6,585	3	6,582
1975	6,558	184	6,742	238,002	27	6,715	2	6,713
1976	6,877	131	7,008	234,272	-10	7,018	4	7,014
1977	7,072	218	7,290	257,623	71	7,217	2	7,215
1978	7,207	190	7,397	241,002	-55	7,453	2	7,451
1979	7,158	181	7,339	239,919	-2	7,341	--	7,341
1980	6,849	140	6,989	264,205	66	6,923	--	6,923
1981	6,437	157	6,594	256,425 (d)	-27	6,621	2	6,619
1982	6,362	197	6,559	246,935	-26	6,584	20	6,564
1983	6,365	248	6,613	225,042	-45	6,658	10	6,648
1984	6,478	299	6,777	246,307	54	6,723	6	6,717

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand(f)
1985	6,441	381	6,822	225,148	-43	6,865	10	6,858
Jan.	5,943	204	6,147	236,571	-224	6,372	2	6,370
Feb.	5,937	348	6,285	227,837	-325	6,610	2	6,607
Mar.	6,096	481	6,577	221,706	-117	6,694	3	6,690
Apr.	6,369	494	6,863	217,664	-135	6,998	11	6,987
May	6,589	480	7,069	217,395	-27	7,096	8	7,088
Jun.	6,807	396	7,203	220,825	171	7,032	7	7,025
Jul.	6,825	426	7,251	228,977	190	7,061	18	7,043
Aug.	6,849	305	7,154	224,116	-128	7,282	4	7,277
Sep.	6,328	314	6,642	225,565	-23	6,665	6	6,658
Oct.	6,380	324	6,704	216,183	-238	6,942	19	6,924
Nov.	6,505	410	6,915	219,506	110	6,805	17	6,790
Dec.	6,669	386	7,055	225,148	219	6,836	18	6,818
1986	6,784	326	7,110	235,490	11	7,099	33	7,066
Jan.	6,542	332	6,874	240,680	347	6,527	6	6,522
Feb.	6,333	334	6,667	246,139	167	6,500	11	6,489
Mar.	6,082	224	6,306	221,219	-697	7,003	21	6,983
Apr.	6,528	291	6,819	209,801	-341	7,160	23	7,138
May	7,126	471	7,597	222,753	447	7,150	9	7,141
Jun.	7,137	392	7,529	232,754	267	7,262	18	7,244
Jul.	6,994	337	7,331	226,374	-187	7,518	47	7,472
Aug.	7,136	303	7,439	224,160	-76	7,515	43	7,473
Sep.	6,956	304	7,260	236,700	293	6,967	40	6,926
Oct.	6,646	322	6,968	225,153	-370	7,338	61	7,278
Nov.	6,917	280	7,197	232,201	198	6,999	96	6,902
Dec.	6,982	320	7,302	235,490	112	7,190	24	7,166
1987	6,866	384	7,250	228,770	-15	7,266	35	7,231
Jan.	6,738	394	7,132	253,723	533	6,598	44	6,554
Feb.	6,387	310	6,697	252,768	-143	6,840	22	6,818
Mar.	6,588	364	6,952	250,466	-57	7,010	20	6,990
Apr.	6,867	374	7,241	243,932	-142	7,383	42	7,341
May	7,016	354	7,370	236,983	-169	7,538	48	7,490
Jun.	7,124	385	7,509	232,608	-105	7,614	46	7,568
Jul.	7,070	453	7,523	228,572	-119	7,643	33	7,610
Aug.	6,962	396	7,358	228,707	-29	7,387	19	7,368
Sep.	6,954	421	7,375	232,075	115	7,260	30	7,230
Oct.	6,694	356	7,050	220,517	-301	7,351	21	7,330
Nov.	6,923	484	7,407	227,624	206	7,201	32	7,169
Dec.	7,036	320	7,356	228,770	29	7,326	59	7,267

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1988	6,981	406	7,387	230,771	2	7,385	22	7,363
Jan.	6,751	357	7,108	242,801	385	6,724	8	6,716
Feb.	6,753	397	7,150	243,751	70	7,079	18	7,061
Mar.	6,737	349	7,086	233,949	-281	7,367	18	7,349
Apr.	6,930	399	7,329	228,901	-144	7,473	18	7,455
May	6,881	440	7,321	228,253	-43	7,364	28	7,336
Jun.	7,008	429	7,437	212,076	-471	7,908	59	7,849
Jul.	7,191	482	7,673	217,388	147	7,527	12	7,515
Aug.	7,241	494	7,735	222,116	135	7,599	15	7,584
Sep.	6,976	444	7,420	223,441	-28	7,448	16	7,432
Oct.	6,884	352	7,236	219,910	-74	7,309	13	7,296
Nov.	7,080	451	7,531	223,400	117	7,415	15	7,400
Dec.	7,328	278	7,606	230,771	198	7,410	45	7,365
1989	6,987	370	7,357	215,670	-35	7,391	39	7,352
Jan.	6,956	353	7,309	250,809	508	6,801	33	6,768
Feb.	6,670	425	7,095	249,860	-64	7,159	24	7,135
Mar.	6,634	382	7,016	232,629	-473	7,489	43	7,446
Apr.	6,830	370	7,200	229,076	-33	7,233	46	7,187
May	6,923	355	7,278	225,202	-161	7,439	31	7,408
Jun.	7,306	386	7,692	218,482	-174	7,866	60	7,806
Jul.	7,388	384	7,772	231,061	390	7,382	57	7,325
Aug.	7,187	360	7,547	222,677	-264	7,815	58	7,757
Sep.	7,101	321	7,422	228,763	124	7,298	31	7,267
Oct.	6,873	389	7,262	224,739	-90	7,352	29	7,323
Nov.	7,071	406	7,477	225,891	79	7,398	18	7,380
Dec.	6,900	306	7,206	215,670	-259	7,465	37	7,428
1990	6,982	342	7,324	221,537	9	7,314	55	7,259
Jan.	6,895	417	7,312	238,382	618	6,693	31	6,662
Feb.	7,011	411	7,422	247,108	168	7,255	53	7,202
Mar.	6,633	270	6,903	229,240	-504	7,408	45	7,363
Apr.	6,797	328	7,125	224,877	-45	7,172	28	7,144
May	6,638	585	7,223	219,508	-186	7,409	25	7,384
Jun.	7,130	376	7,506	214,613	-95	7,602	52	7,550
Jul.	7,264	432	7,696	219,963	127	7,569	41	7,528
Aug.	7,360	313	7,673	211,646	-230	7,904	77	7,827
Sep.	7,299	254	7,553	230,582	512	7,041	103	6,938
Oct.	6,899	192	7,091	221,821	-247	7,338	90	7,248
Nov.	6,962	259	7,221	219,141	-105	7,327	66	7,261
Dec.	6,903	264	7,167	221,537	118	7,048	53	6,995

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1991(p)								
Jan.	6,649	227	6,876	229,306	168	6,709	50	6,659
Feb.	6,592	106	6,698	223,889	-228	6,926	102	6,824
Mar.	6,658	235	6,893	213,185	-271	7,164	97	7,067
Apr.	6,760	371	7,131	208,379	-81	7,212	53	7,159
May	7,090	528	7,618	211,281	58	7,559	59	7,500
Jun.	7,379	372	7,751	216,472	159	7,592	99	7,493
Jul.	7,312	232	7,544	210,894	-160	7,704	122	7,582
Aug.	7,282	385	7,667	210,886	-25	7,693	98	7,595
Sep.	7,070	321	7,391	218,332	210	7,180	63	7,117

(a) Includes motor and aviation gasoline.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels.
(d) U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year end 1980 stocks were 265,802 thousand barrels. This figure was used to compute the 1981 stock change.
(e) Includes blending components.
(f) Totals may not add due to independent rounding.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies.

Section VII
Table 4

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1964(a)	4,399	29	4,428	185,766	23	4,405	2	4,403
1965	4,537	27	4,564	174,717	-30	4,594	1	4,593
1966	4,798	43	4,841	186,393	32	4,810	2	4,808
1967	4,956	42	4,998	200,055	37	4,961	3	4,958
1968	5,215	59	5,274	204,496	12	5,261	1	5,260
1969	5,484	62	5,546	211,199	18	5,528	2	5,526
1970	5,714	67	5,781	209,255	-5	5,786	1	5,785
1971	5,984	59	6,043	219,352	28	6,015	1	6,014
1972	6,292	68	6,360	212,894	-18	6,378	1	6,377
1973	6,535	134	6,669	209,478	-9	6,678	4	6,674
1974	6,360	204	6,564	218,410 (b)	24	6,540	2	6,538
1975	6,520	184	6,704	234,978	28	6,676	2	6,674
1976	6,841	131	6,972	231,387	-10	6,981	3	6,978
1977	7,033	217	7,250	257,623	72	7,177	2	7,175
1978(c)	7,169	190	7,359	237,979	-54	7,413	1	7,412
1979(c)	7,120	181	7,301	237,200	-1	7,302	0	7,302
1980(c)	6,814	140	6,954	261,398	66	6,888	1	6,887
1981	6,405	157	6,562	253,001	-28	6,590	2	6,588
1982	6,338	197	6,535	235,431	-25	6,560	20	6,539
1983	6,340	247	6,587	222,434	-45	6,632	-10	6,622
1984	6,453	299	6,752	243,296	54	6,698	6	6,693
1985	6,419	381	6,800	222,839	-41	6,841	10	6,831
Jan.	5,926	204	6,130	233,663	-220	6,350	2	6,348
Feb.	5,914	348	6,262	224,884	-327	6,589	2	6,587
Mar.	6,072	481	6,553	218,816	-115	6,668	3	6,664
Apr.	6,344	494	6,838	214,979	-128	6,966	11	6,956
May	6,564	480	7,044	214,875	-23	7,067	8	7,060
Jun.	6,780	396	7,176	218,344	172	7,004	7	6,997
Jul.	6,788	426	7,214	226,471	188	7,026	18	7,008
Aug.	6,814	305	7,119	221,583	-127	7,246	4	7,242
Sep.	6,299	314	6,613	223,098	-22	6,635	6	6,629
Oct.	6,356	324	6,680	213,853	-235	6,915	19	6,897
Nov.	6,480	410	6,890	217,013	104	6,786	17	6,770
Dec.	6,651	386	7,037	222,839	227	6,810	18	6,792

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1986	6,752	326	7,078	233,057	11	7,067	33	7,034
Jan.	6,522	332	6,854	238,330	347	6,507	6	6,502
Feb.	6,301	334	6,635	243,530	156	6,479	11	6,469
Mar.	6,060	224	6,284	218,756	-691	6,975	21	6,955
Apr.	6,498	291	6,789	207,454	-338	7,127	23	7,105
May	7,094	471	7,565	220,502	450	7,115	9	7,106
Jun.	7,100	392	7,492	230,480	265	7,227	18	7,209
Jul.	6,956	337	7,293	224,028	-189	7,482	47	7,436
Aug.	7,091	303	7,394	221,586	-83	7,477	43	7,435
Sep.	6,890	303	7,193	233,945	289	6,904	40	6,864
Oct.	6,616	322	6,938	222,356	-372	7,312	61	7,250
Nov.	6,895	280	7,175	229,370	200	6,975	96	6,879
Dec.	6,969	320	7,289	233,057	122	7,167	24	7,143
1987	6,841	384	7,225	226,183	-15	7,241	35	7,206
Jan.	6,714	393	7,107	251,111	528	6,579	44	6,535
Feb.	6,365	309	6,674	250,082	-144	6,818	22	6,796
Mar.	6,568	364	6,932	248,050	-51	6,984	20	6,964
Apr.	6,849	374	7,223	241,750	-133	7,356	42	7,314
May	6,991	354	7,345	234,908	-164	7,508	48	7,460
Jun.	7,089	385	7,474	230,421	-111	7,585	46	7,539
Jul.	7,042	452	7,494	226,353	-119	7,614	33	7,581
Aug.	6,932	396	7,328	226,459	-29	7,357	19	7,338
Sep.	6,921	421	7,342	229,648	107	7,235	30	7,205
Oct.	6,668	356	7,024	218,022	-302	7,326	21	7,305
Nov.	6,907	484	7,391	225,190	208	7,183	32	7,151
Dec.	7,014	320	7,334	226,183	24	7,310	59	7,251
1988	6,956	405	7,361	228,403	3	7,358	22	7,336
Jan.	6,730	357	7,087	240,268	387	6,701	8	6,693
Feb.	6,736	397	7,133	241,358	75	7,057	18	7,039
Mar.	6,715	349	7,064	231,743	-277	7,341	18	7,323
Apr.	6,907	399	7,306	226,700	-142	7,448	18	7,430
May	6,850	437	7,287	226,108	-43	7,331	28	7,303
Jun.	6,982	428	7,410	210,088	-465	7,876	59	7,817
Jul.	7,159	482	7,641	215,273	148	7,494	12	7,482
Aug.	7,209	494	7,703	220,097	131	7,571	15	7,556
Sep.	6,948	443	7,391	221,346	-28	7,420	16	7,404
Oct.	6,857	352	7,209	217,690	-75	7,284	13	7,271
Nov.	7,060	451	7,511	221,235	118	7,394	15	7,379
Dec.	7,303	277	7,580	228,403	192	7,389	45	7,344

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

Year	Supply			Stocks as of Dec. 31(d) (thous of barrels)	Demand			
	Production	Imports	New Supply		Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1989	6,963	369	7,332	213,441	-35	7,367	39	7,328
Jan.	6,937	353	7,290	248,574	512	6,778	33	6,745
Feb.	6,650	423	7,073	247,540	-70	7,143	24	7,119
Mar.	6,612	381	6,993	230,340	-471	7,464	43	7,421
Apr.	6,811	370	7,181	227,147	-22	7,203	46	7,157
May	6,894	355	7,249	223,219	-163	7,412	31	7,381
Jun.	7,275	386	7,661	216,353	-179	7,840	60	7,780
Jul.	7,360	383	7,743	228,903	390	7,353	57	7,296
Aug.	7,155	360	7,515	220,676	-260	7,775	58	7,717
Sep.	7,069	320	7,389	226,691	118	7,271	31	7,240
Oct.	6,845	389	7,234	222,456	-97	7,331	29	7,302
Nov.	7,046	406	7,452	223,609	81	7,371	18	7,353
Dec.	6,884	306	7,190	213,441	-257	7,447	37	7,410
1990	6,959	342	7,301	219,633	10	7,290	55	7,235
Jan.	6,879	417	7,296	236,261	621	6,674	31	6,643
Feb.	6,989	411	7,400	244,982	169	7,232	53	7,179
Mar.	6,613	270	6,883	227,291	-499	7,383	45	7,338
Apr.	6,775	328	7,103	222,952	-45	7,149	28	7,121
May	6,610	585	7,195	217,465	-189	7,383	25	7,358
Jun.	7,101	376	7,477	212,602	-93	7,571	52	7,519
Jul.	7,238	432	7,670	218,165	133	7,537	41	7,496
Aug.	7,326	313	7,639	209,689	-233	7,873	77	7,796
Sep.	7,274	254	7,528	228,636	511	7,017	103	6,914
Oct.	6,880	192	7,072	219,956	-244	7,316	90	7,226
Nov.	6,940	259	7,199	217,212	-108	7,307	66	7,241
Dec.	6,887	264	7,151	219,633	119	7,031	53	6,978
1991(p)								
Jan.	6,629	227	6,856	227,279	164	6,693	50	6,643
Feb.	6,573	106	6,679	221,860	-229	6,908	102	6,806
Mar.	6,642	235	6,877	211,287	-267	7,144	97	7,047
Apr.	6,742	371	7,113	206,640	-77	7,190	53	7,137
May	7,063	528	7,591	209,479	56	7,534	59	7,475
Jun.	7,351	371	7,722	214,615	159	7,564	99	7,465
Jul.	7,278	232	7,510	208,666	-173	7,683	122	7,561
Aug.	7,257	385	7,642	209,149	-10	7,653	98	7,555
Sep.	7,044	321	7,365	216,576	210	7,154	63	7,091

See notes and sources at end of table

Section VII
Table 4c

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

(a) Data prior to 1964 is not available on a comparable basis.
(b) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.
(c) In 1981, the Department of Energy changed their methodology for calculating motor gasoline_ distillate_ and residual product supplies. Based on this raw methodology, API has reconstructed DOE data for 1978, 1979, and 1980. The stock reporting base was also altered as of January 1981. On the new basis, year-end 1980 stocks were 263,003 thousand barrels. This figure was used to compute the 1981 stock change.
(d) Includes motor gasoline blending components.
(e) Totals do not add due to independent rounding.

SOURCE: 1964-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals, and Monthlies.

Section VII
Table 5

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1947	864	12	876	51,081	-23	899	82	817
1948	1,046	7	1,053	71,429	64	989	58	931
1949	941	5	946	75,207	10	936	34	902
1950	1,100	7	1,107	71,948	-10	1,117	35	1,082
1951	1,311	5	1,316	86,619	29	1,287	62	1,225
1952	1,422	8	1,430	99,375	35	1,395	92	1,303
1953	1,452	9	1,461	111,741	35	1,426	89	1,337
1954	1,490	9	1,499	108,144	-9	1,508	66	1,442
1955	1,656	12	1,668	111,333	9	1,659	67	1,592
1956	1,825	14	1,839	133,981	62	1,777	94	1,683
1957	1,838	23	1,861	149,449	42	1,819	131	1,688
1958	1,734	41	1,775	125,101	-67	1,842	52	1,790
1959(a)	1,865	48	1,913	151,164	70	1,843	35	1,808
1960	1,830	35	1,865	138,455	-34	1,899	27	1,872
1961	1,911	47	1,958	152,018	37	1,921	19	1,902
1962	1,975	33	2,008	144,505	-21	2,029	22	2,007
1963	2,098	25	2,123	156,677	35	2,088	41	2,047
1964	2,031	32	2,063	155,846	-2	2,065	15	2,050
1965	2,099	36	2,135	155,407	-1	2,136	10	2,126
1966	2,155	38	2,193	154,096	-4	2,197	12	2,185
1967(b)	2,207	51	2,258	159,703	5	2,253	12	2,241
1968	2,299	131	2,430	173,158	37	2,393	4	2,389
1969	2,326	139	2,465	171,714	-4	2,469	3	2,466
1970	2,460	148	2,608	195,271	65	2,543	3	2,540
1971	2,503	153	2,656	190,622	-13	2,669	8	2,661
1972	2,636	181	2,817	154,319	-99	2,916	3	2,913
1973	2,822	392	3,214	196,461	115	3,101	9	3,092
1974	2,669	289	2,958	200,068 (c)	10	2,950	2	2,948
1975	2,654	155	2,809	208,833	-40	2,852	1	2,851
1976	2,924	146	3,070	185,986	-62	3,134	1	3,133
1977	3,278	250	3,528	250,295	176	3,353	1	3,352
1978(d)	3,171	173	3,344	216,463	-93	3,438	3	3,435
1979(d)	3,167	197	3,364	228,729	34	3,330	3	3,327
1980(d)	2,769	139	2,908	205,132	-64	2,972	3	2,969
1981	2,613	173	2,786	191,541	-38	2,834	5	2,829
1982	2,606	93	2,699	178,592	-35	2,745	74	2,671
1983(e)	2,456	174	2,630	140,263	-124	2,754	64	2,690
1984	2,681	272	2,953	161,072	57	2,896	51	2,845

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1985	2,687	200	2,887	143,673	-48	2,935	67	2,868
Jan.	2,631	272	2,903	142,384	-603	3,506	41	3,465
Feb.	2,503	143	2,646	121,439	-748	3,394	64	3,330
Mar.	2,267	156	2,423	99,293	-714	3,137	44	3,093
Apr.	2,490	253	2,743	96,845	-82	2,825	27	2,798
May	2,686	197	2,883	104,432	245	2,638	31	2,607
Jun.	2,647	152	2,799	109,688	175	2,624	30	2,594
Jul.	2,646	95	2,741	115,683	193	2,548	112	2,436
Aug.	2,592	81	2,673	113,755	-62	2,736	100	2,636
Sep.	2,594	222	2,816	117,367	120	2,696	121	2,575
Oct.	2,902	262	3,164	123,417	195	2,968	67	2,901
Nov.	3,103	280	3,383	139,719	543	2,839	92	2,747
Dec.	3,175	287	3,462	143,673	128	3,334	81	3,253
1986	2,798	247	3,045	155,097	31	3,014	100	2,914
Jan.	2,899	325	3,224	136,490	-232	3,456	126	3,330
Feb.	2,563	169	2,732	112,402	-860	3,592	176	3,416
Mar.	2,643	217	2,860	98,811	-438	3,299	131	3,168
Apr.	2,787	147	2,934	95,907	-97	3,032	128	2,904
May	2,858	149	3,007	98,857	95	2,911	149	2,762
Jun.	2,729	169	2,898	107,895	301	2,597	53	2,544
Jul.	2,710	313	3,023	118,905	355	2,668	75	2,593
Aug.	2,922	370	3,292	137,737	607	2,685	64	2,621
Sep.	2,865	262	3,127	152,403	489	2,638	98	2,540
Oct.	2,717	243	2,960	151,617	-25	2,986	74	2,912
Nov.	2,916	254	3,170	158,263	222	2,948	72	2,876
Dec.	2,943	339	3,282	155,097	-102	3,384	55	3,329
1987	2,730	255	2,985	134,485	-56	3,042	66	2,976
Jan.	2,760	222	2,982	141,342	-444	3,425	115	3,310
Feb.	2,556	253	2,809	123,730	-629	3,438	93	3,345
Mar.	2,422	297	2,719	109,332	-464	3,183	67	3,116
Apr.	2,552	192	2,744	100,338	-300	3,044	53	2,991
May	2,563	203	2,766	101,286	31	2,735	51	2,684
Jun.	2,689	265	2,954	104,391	104	2,851	61	2,790
Jul.	2,700	381	3,081	114,602	329	2,751	38	2,713
Aug.	2,705	222	2,927	124,735	327	2,600	47	2,553
Sep.	2,748	222	2,970	126,762	68	2,902	64	2,838
Oct.	2,780	237	3,017	120,974	-187	3,204	53	3,151
Nov.	3,036	187	3,223	128,004	234	2,988	56	2,932
Dec.	3,241	378	3,619	134,485	209	3,410	92	3,318

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand (f)
1988	2,858	302	3,160	123,517	-30	3,191	69	3,122
Jan.	3,009	424	3,433	128,098	-206	3,640	82	3,558
Feb.	2,667	383	3,050	110,301	-614	3,664	107	3,557
Mar.	2,706	247	2,953	89,843	-660	3,613	74	3,539
Apr.	2,867	210	3,077	94,972	171	2,906	42	2,864
May	2,936	253	3,189	104,879	320	2,869	74	2,795
Jun.	2,893	222	3,115	110,418	185	2,930	76	2,854
Jul.	2,784	222	3,006	119,955	308	2,698	58	2,640
Aug.	2,848	279	3,127	125,689	185	2,943	70	2,873
Sep.	2,778	307	3,085	131,451	192	2,893	72	2,821
Oct.	2,827	336	3,163	128,248	-103	3,266	48	3,218
Nov.	2,910	327	3,237	128,805	19	3,217	34	3,183
Dec.	3,068	409	3,477	123,517	-171	3,647	87	3,560
1989	2,899	306	3,205	105,700	-49	3,254	97	3,157
Jan.	2,974	346	3,320	120,620	-93	3,413	110	3,303
Feb.	2,797	331	3,128	107 648	-463	3,591	164	3,427
Mar.	2,713	439	3,152	96,736	-352	3,504	76	3,428
Apr.	2,789	301	3,090	98,541	59	3,031	56	2,975
May	2,750	290	3,040	99,618	35	3,005	51	2,954
Jun.	2,809	233	3,042	99,613	1	3,041	39	3,002
Jul.	2,848	334	3,182	115,036	497	2,685	89	2,596
Aug.	2,907	254	3,161	116,306	41	3,120	154	2,966
Sep.	2,952	249	3,201	123,226	231	2,970	81	2,889
Oct.	2,906	261	3,167	121,691	-50	3,217	90	3,127
Nov.	3,063	307	3,370	119,764	-64	3,434	123	3,311
Dec.	3,266	324	3,590	105,700	-454	4,044	130	3,914
1990	2,925	278	3,203	132,204	73	3,130	109	3,021
Jan.	3,130	505	3,635	117,729	388	3,247	62	3,185
Feb.	2,753	357	3,110	111,718	-215	3,325	65	3,260
Mar.	2,657	281	2,938	98,866	-415	3,352	75	3,277
Apr.	2,803	308	3,111	99,146	9	3,102	59	3,043
May	2,874	209	3,083	102,509	108	2,975	75	2,900
Jun.	2,996	257	3,253	109,885	246	3,007	84	2,923
Jul.	3,008	236	3,244	124,979	487	2,756	30	2,726
Aug.	3,131	293	3,424	129,808	156	3,269	51	3,218
Sep.	2,968	226	3,194	136,015	207	2,987	123	2,864
Oct.	2,928	190	3,118	136,270	8	3,110	150	2,960
Nov.	2,915	238	3,153	132,407	-129	3,282	188	3,094
Dec.	2,917	239	3,156	132,204	-7	3,163	347	2,816

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1991								
Jan.	2,851	190	3,041	112,111	-648	3,688	332	3,356
Feb.	2,867	138	3,005	101,256	-388	3,393	393	3,000
Mar.	2,862	206	3,068	98,273	-96	3,164	198	2,966
Apr.	2,822	258	3,080	102,177	130	2,950	81	2,869
May	2,924	185	3,109	107,005	156	2,953	218	2,735
Jun.	2,940	209	3,149	113,474	216	2,933	150	2,783
Jul.	2,992	153	3,145	124,256	348	2,798	149	2,649
Aug.	2,959	167	3,126	130,550	203	2,923	144	2,779
Sep.	3,054	221	3,275	139,504	298	2,976	136	2,840

(a) These figures and those for subsequent years are on a 50-state basis.
(b) Production and stocks at gas processing plants are included in this and subsequent years.
(c) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change.
(d) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979, and 1980.
(e) In 1983, DOE changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised stock figures for 1982.
(f) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Section VII
Table 6

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1947	1,301	149	1,450	47,091	--	1,450	29	1,421
1948	1,329	146	1,475	64,021	72	1,403	36	1,367
1949	1,177	206	1,383	60,193	-11	1,394	35	1,359
1950	1,180	329	1,509	40,750	-53	1,562	45	1,517
1951	1,302	327	1,629	42,853	3	1,626	80	1,546
1952	1,257	351	1,608	48,706	16	1,592	76	1,516
1953	1,248	360	1,608	49,370	2	1,606	71	1,535
1954	1,158	354	1,512	52,105	8	1,504	73	1,431
1955	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,183	445	1,628	44,491	15	1,613	76	1,537
1957	1,176	475	1,651	59,959	42	1,609	105	1,504
1958	1,025	499	1,524	59,508	-1	1,525	70	1,455
1959(a)	973	610	1,583	53,501	-18	1,601	57	1,544
1960	918	637	1,555	44,870	-24	1,579	51	1,528
1961	875	667	1,542	44,869	--	1,542	39	1,503
1962	820	724	1,544	49,996	14	1,530	35	1,495
1963	765	747	1,512	47,538	-6	1,518	42	1,476
1964	739	808	1,547	40,403	-20	1,567	52	1,515
1965	746	946	1,692	56,214	43	1,649	41	1,608
1966	733	1,032	1,765	61,196	14	1,751	35	1,716
1967	766	1,085	1,851	65,597	5	1,846	60	1,786
1968	765	1,120	1,885	67,359	5	1,880	54	1,826
1969	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	765	1,583	2,348	59,681	16	2,332	36	2,296
1972	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	988	1,853	2,841	53,480	-5	2,845	23	2,822
1974	1,083	1,587	2,670	59,694 (b)	17	2,653	14	2,639
1975	1,250	1,223	2,473	74,126	-2	2,477	15	2,462
1976	1,394	1,413	2,807	72,344	-5	2,813	12	2,801
1977	1,767	1,359	3,126	89,993	49	3,077	6	3,071
1978(c)	1,681	1,355	3,036	90,194	1	3,037	13	3,024
1979(c)	1,708	1,151	2,859	95,598	15	2,844	9	2,835
1980(c)	1,660	920	2,580	90,344	-14	2,594	33	2,561
1981	1,369	800	2,169	77,992	-37	2,206	118	2,088
1982	1,118	776	1,894	66,200	-32	1,925	209	1,716
1983(d)	852	699	1,551	48,504	-55	1,606	185	1,421
1984	891	681	1,572	53,000	12	1,559	190	1,369

See notes and sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1985	882	510	1,392	50,381	-7	1,399	197	1,202
Jan.	1,004	568	1,572	46,201	-219	1,792	312	1,480
Feb.	1,040	580	1,620	45,053	-41	1,661	295	1,366
Mar.	963	477	1,440	46,127	35	1,406	216	1,190
Apr.	912	383	1,295	46,195	2	1,293	167	1,126
May	793	394	1,187	41,397	-155	1,341	185	1,156
Jun.	702	400	1,102	39,622	-59	1,161	118	1,043
Jul.	732	437	1,169	40,507	29	1,141	83	1,058
Aug.	742	424	1,166	37,164	-108	1,274	106	1,168
Sep.	808	617	1,425	43,359	207	1,219	188	1,031
Oct.	912	541	1,453	50,418	228	1,225	184	1,041
Nov.	932	627	1,559	50,263	-5	1,565	275	1,290
Dec.	1,055	681	1,736	50,381	4	1,733	250	1,483
1986	889	669	1,558	47,437	-8	1,565	147	1,418
Jan.	940	622	1,562	48,655	-56	1,618	211	1,407
Feb.	856	604	1,460	43,048	-200	1,661	183	1,478
Mar.	813	626	1,439	39,709	-108	1,548	113	1,435
Apr.	933	545	1,478	35,910	-127	1,604	202	1,402
May	913	675	1,588	39,431	114	1,474	129	1,345
Jun.	818	712	1,530	42,767	111	1,420	43	1,377
Jul.	850	673	1,523	40,333	-75	1,598	90	1,508
Aug.	896	793	1,689	41,346	29	1,659	174	1,485
Sep.	854	641	1,495	44,006	89	1,406	110	1,296
Oct.	827	635	1,462	45,822	59	1,403	144	1,259
Nov.	975	574	1,549	46,275	15	1,534	143	1,391
Dec.	987	913	1,900	47,437	37	1,862	224	1,638
1987	885	565	1,450	47,410	--	1,450	186	1,264
Jan.	920	701	1,621	44,931	-81	1,702	198	1,504
Feb.	825	668	1,493	38,140	-243	1,736	221	1,515
Mar.	863	559	1,422	39,303	38	1,384	150	1,234
Apr.	831	476	1,307	35,890	-114	1,421	239	1,182
May	813	505	1,318	40,371	145	1,173	144	1,029
Jun.	864	481	1,345	41,356	33	1,312	105	1,207
Jul.	901	721	1,622	44,694	108	1,514	175	1,339
Aug.	882	512	1,394	45,690	32	1,361	185	1,176
Sep.	904	526	1,430	44,417	-42	1,473	177	1,296
Oct.	887	414	1,301	45,619	39	1,263	194	1,069
Nov.	928	568	1,496	49,975	145	1,351	146	1,205
Dec.	1,001	650	1,651	47,410	-83	1,734	300	1,434

See notes and sources at end of table

Section VII
Table 6b

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

Year	Supply				Demand			
	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1988	926	644	1,570	44,621	-8	1,578	200	1,378
Jan.	1,002	805	1,807	46,033	-44	1,851	190	1,661
Feb.	994	901	1,895	45,090	-33	1,927	229	1,698
Mar.	948	650	1,598	43,746	-43	1,641	165	1,476
Apr.	960	495	1,455	42,756	-33	1,488	170	1,318
May	862	432	1,294	45,662	94	1,201	263	938
Jun.	880	336	1,216	42,165	-117	1,332	249	1,083
Jul.	906	479	1,385	41,007	-37	1,423	206	1,217
Aug.	866	581	1,447	38,007	-97	1,545	225	1,320
Sep.	852	698	1,550	44,592	220	1,330	100	1,230
Oct.	852	603	1,455	42,470	-68	1,524	181	1,343
Nov.	916	785	1,701	44,003	51	1,650	146	1,504
Dec.	1,069	975	2,044	44,621	20	2,025	271	1,754
1989	954	629	1,583	43,838	-2	1,585	215	1,370
Jan.	949	909	1,858	47,232	84	1,774	151	1,623
Feb.	930	877	1,807	45,607	-58	1,865	146	1,719
Mar.	937	706	1,643	41,644	-128	1,771	220	1,551
Apr.	904	681	1,585	40,075	-52	1,637	236	1,401
May	934	538	1,472	42,473	77	1,395	276	1,119
Jun.	953	533	1,486	44,101	55	1,431	208	1,223
Jul.	862	556	1,418	42,742	-44	1,462	176	1,286
Aug.	903	501	1,404	44,541	58	1,346	225	1,121
Sep.	856	454	1,310	49,399	163	1,147	137	1,010
Oct.	1,001	583	1,584	50,935	50	1,535	243	1,292
Nov.	1,075	543	1,618	52,373	48	1,570	330	1,240
Dec.	1,140	680	1,820	43,838	-276	2,096	226	1,870
1990	950	504	1,454	48,561	13	1,440	211	1,229
Jan.	1,163	825	1,988	50,206	205	1,783	186	1,597
Feb.	1,060	663	1,723	51,218	36	1,688	214	1,474
Mar.	976	335	1,311	46,307	-158	1,469	277	1,192
Apr.	882	559	1,441	49,009	90	1,351	200	1,151
May	884	507	1,391	49,696	22	1,368	141	1,227
Jun.	926	485	1,411	46,769	-98	1,509	207	1,302
Jul.	987	536	1,523	49,000	72	1,451	171	1,280
Aug.	944	574	1,518	48,975	-1	1,518	280	1,238
Sep.	909	313	1,222	49,436	15	1,207	200	1,007
Oct.	799	383	1,182	49,349	-3	1,186	160	1,026
Nov.	846	387	1,233	50,098	25	1,208	243	965
Dec.	1,021	484	1,505	48,561	-50	1,555	259	1,296

See notes and sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1991(p)								
Jan.	1,000	422	1,422	47,600	-32	1,453	320	1,133
Feb.	1,049	384	1,433	44,645	-106	1,538	299	1,239
Mar.	997	331	1,328	42,941	-55	1,384	178	1,206
Apr.	915	416	1,331	44,690	58	1,273	145	1,128
May	926	420	1,346	45,809	36	1,310	300	1,010
Jun.	933	499	1,432	43,475	-78	1,510	245	1,265
Jul.	870	419	1,289	43,357	-4	1,294	176	1,118
Aug.	925	568	1,493	45,595	72	1,421	216	1,205
Sep.	838	473	1,311	47,905	77	1,234	168	1,066

(a) These figures and those for subsequent years are on a 50 state basis.
(b) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change.
(c) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979, and 1980.
(d) In 1983, the Department of Energy changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised figure for 1982.
(e) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
[illegible]-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
[illegible]-1991: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Deliveries of Distillate and Residual Fuel Oil to Electric Utilities
(Thousands of Barrels per Day)

Year	Distillate(d)	Residual	Total	Total Fuel Oil Demand All Sectors
1947	39	167	206	2,238
1948	41	155	196	2,298
1949	34	219	253	2,261
1950	36	255	291	2,599
1951	26	193	219	2,771
1952	23	192	215	2,819
1953	19	234	253	2,872
1954	17	194	211	2,873
1955	16	208	224	3,118
1956	15	202	217	3,220
1957	15	210	225	3,192
1958	15	211	226	3,245
1959 (a)	14	225	239	3,352
1960 (b)	13	233	246	3,400
1961	11	241	252	3,405
1962	11	242	253	3,502
1963	11	251	262	3,523
1964	10	267	277	3,565
1965	10	315	325	3,734
1966	10	378	388	3,901
1967 (c)	8	434	442	4,027
1968	23	505	528	4,215
1969	33	679	712	4,444
1970	68	856	924	4,744
1971	97	1,019	1,116	4,957
1972 (e)	187	1,189	1,376	5,442
1973 (e)	214	1,396	1,610	5,914
1974 (e)	232	1,302	1,534	5,587
1975 (e)	174	1,246	1,420	5,313
1976 (e)	165	1,351	1,516	5,934
1977 (e)	210	1,560	1,770	6,423
1978 (e)	211	1,461	1,672	6,459
1979	128	1,333	1,461	6,162
1980	87	1,066	1,153	5,530
1981	50	892	942	4,917
1982	33	623	656	4,387
1983	32	560	592	4,111
1984	45	509	554	4,214
1985	34	403	437	4,070
1986	40	590	630	4,333
1987	42	498	540	4,241
1988	52	622	674	4,499
1989	70	639	709	4,527

See notes and sources at end of table

Deliveries of Distillate and Residual Fuel Oil to Electric Utilities
(Thousands of Barrels per Day)

Year	Distillate(d)	Residual	Total	Total Fuel Oil Demand All Sectors
1990	48	550	598	4,249

(a) These data include Alaska but not Hawaii.
(b) These data and those for subsequent years are on a 50-state basis.
(c) Data is for electric public utility power plants only.
(d) Beginning in 1968, these data include distillate sales for gas turbine plants.
(e) Includes kerosine jet fuel; 1972-24,000 bbls. per day; 1973-17,000 bbls. per day; 1974-14,000 bbls. per day; 1975-9,000 bbls. per day; 1976-11,600 bbls. per day; 1977-17,419 bbls. per day; 1978--12,342 bbls. per day.

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine
1976-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals
1979-1983: U.S. Energy Information Administration, Petroleum Supply Annuals
1984-1989: U.S. Energy Information Administration, Petroleum Marketing Monthly & Annual

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1962(b)	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499	1,862,659
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,503	90,489	92,064	111,594	123,995	163,070
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	857,867	933,764	996,011	1,094,225	1,201,122	1,147,782
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993	1,152,195
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,684	9,363,091	9,995,752	10,307,287	9,887,900
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,840	1,109,271	1,187,015	1,295,516	1,356,428	1,301,967
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085	1,327,308
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316	296,489
Dist. of Col.	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626	240,457
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798	4,205,193
Georgia	1,404,674	1,465,671	1,563,737	1,655,099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556	2,739,639
Hawaii	15[illegible]197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887	277,849
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	353,990	379,479	400,735	421,403	451,315	468,321	457,785
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,816	4,408,829	4,596,788	4,836,863	5,048,307	5,024,751
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,485	2,739,043
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666	1,647,054
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,184,298	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262	1,329,122
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,686	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508	1,676,588
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770	1,756,343
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231	520,051
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,367,611	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506	1,789,440
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441	2,296,921
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,537,187	4,748,355	4,565,132
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580	2,034,085
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423	1,195,373
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190	2,628,598
Montana	309,869	309,609	313,450	327,979	334,344	342,289	361,060	371,950	395,762	425,158	427,048	440,456	448,019
Nebraska	633,965	655,102	676,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846	868,296
Nevada	184,637	205,360	218,989	233,702	242,024	247,239	269,741	285,519	314,702	333,806	365,954	389,776	382,610
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937	390,559
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118	3,174,698
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,800	686,811	683,532
New York	4,068,568	4,198,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,121	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799	5,997,859
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722	2,820,286
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026	411,328
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284	5,006,097
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,157	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001	1,675,497
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689	1,187,671
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,867	4,458,007	4,768,816	4,836,463	4,813,878
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135	371,740
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,064,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738	1,456,658
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,696	420,859	439,796	464,493	474,646	456,444
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089	2,181,836
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,305,427	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539	7,099,280
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731	616,419
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662	235,325
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181	2,441,443
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314	1,666,944
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331	766,439
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977	2,145,544
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,693	233,411	246,667	256,601	279,080	293,571	294,460
TOTAL	62,531,373	64,779,104	67,663,848	70,337,126	73,638,872	76,139,326	80,772,657	85,416,084	89,405,266	93,907,352	100,068,575	104,579,479	101,855,749

See notes and sources at end of table

Section VII
Table 8a

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	1,918,203	2,028,878	2,098,979	2,181,179	2,093,703	1,962,046	1,849,225	1,840,396	1,861,406	1,905,267	1,881,466	2,012,114	2,084,218
Alaska	193,725	214,140	204,006	209,118	219,472	201,373	212,804	235,112	221,229	248,993	267,709	256,534	242,578
Arizona	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722	1,344,438	1,341,613	1,410,904	1,489,965	1,555,905	1,635,083	1,683,355
Arkansas	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800	1,137,998	1,123,466	1,128,357	1,193,067	1,166,202	1,212,035	1,241,796
California	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050	10,842,862	10,660,534	11,032,662	11,413,578	11,656,251	12,175,654	12,543,126
Colorado	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288	1,506,429	1,513,235	1,560,776	1,514,511	1,558,918	1,592,000	1,565,700
Connecticut	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582	1,296,048	1,284,966	1,308,077	1,339,766	1,393,470	1,443,603	1,484,832
Delaware	303,545	316,973	314,070	313,277	306,489	293,851	290,581	282,463	308,772	320,247	326,204	333,247	338,285
Dist. of Col.	243,215	229,031	225,434	221,831	214,782	171,451	171,082	170,518	168,019	181,199	163,074	167,549	181,371
Florida	4,345,632	4,507,541	4,668,677	4,929,713	4,905,642	4,810,520	4,845,057	4,900,197	5,078,234	5,261,730	5,462,027	5,690,765	5,914,706
Georgia	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923	2,809,969	2,818,366	2,904,369	3,053,861	3,148,673	3,313,314	3,421,117
Hawaii	289,772	303,836	320,804	332,512	332,490	354,529	347,848	349,098	355,332	371,084	349,709	364,615	384,958
Idaho	482,462	520,640	530,225	563,708	538,740	488,333	471,054	456,063	459,377	458,332	463,502	469,394	462,202
Illinois	5,127,189	5,327,380	5,423,741	5,565,912	5,186,151	4,816,780	4,598,012	4,522,361	4,609,320	4,733,589	4,836,654	4,731,675	4,772,357
Indiana	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146	2,616,773	2,431,388	2,479,277	2,934,238	2,559,430	2,622,218	2,745,535
Iowa	1,655,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192	1,474,522	1,420,817	1,394,722	1,398,211	1,369,838	1,367,462	1,369,663
Kansas	1,378,773	1,462,585	1,433,106	1,504,662	1,406,812	1,310,568	1,268,609	1,236,159	1,240,248	1,245,120	1,234,260	1,248,854	1,265,811
Kentucky	1,743,523	1,840,476	1,889,170	1,941,387	1,868,006	1,755,397	1,729,135	1,721,620	1,734,296	1,764,567	1,736,511	1,850,343	1,855,460
Louisiana	1,830,011	1,986,865	2,076,106	2,157,919	2,158,327	2,081,328	2,103,397	2,145,094	2,151,035	2,166,617	2,132,374	2,160,554	2,062,830
Maine	536,015	567,427	575,775	586,048	541,664	517,014	497,749	505,620	519,891	530,799	548,083	582,048	606,596
Maryland	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209	1,919,423	1,888,873	1,892,434	1,959,267	1,976,290	2,027,743	2,068,369
Massachusetts	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675	2,249,956	2,235,986	2,266,746	2,340,189	2,388,603	2,458,079	2,491,662
Michigan	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036	4,014,363	3,795,814	3,680,884	4,042,348	4,086,109	4,187,028	4,287,736
Minnesota	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270	1,984,982	1,931,205	1,985,492	2,084,655	2,136,370	2,040,806	2,033,108
Mississippi	1,192,595	1,254,446	1,322,865	1,332,417	1,292,209	1,194,845	1,208,384	1,151,872	1,158,134	1,191,027	1,231,066	1,261,173	1,270,055
Missouri	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627	2,528,616	2,494,373	2,536,042	2,601,207	2,614,239	2,762,114	2,754,512
Montana	461,111	493,245	511,714	531,445	499,397	459,950	445,641	452,371	459,851	455,738	441,744	443,446	440,858
Nebraska	880,948	939,870	939,626	958,879	907,383	816,426	798,518	792,579	776,930	780,071	777,136	776,830	776,125
Nevada	409,496	434,031	464,832	509,705	500,916	500,286	508,535	490,270	489,835	504,530	509,110	535,099	567,686
New Hampshire	401,243	426,860	444,560	456,391	433,556	411,214	398,692	393,276	405,203	434,424	446,902	481,789	514,167
New Jersey	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992	3,150,798	3,172,525	3,371,871	3,358,178	3,311,078	3,524,601	3,586,002
New Mexico	708,455	760,885	779,366	821,722	793,452	746,655	742,486	744,599	740,916	764,343	783,404	800,775	821,713
New York	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549	5,674,946	5,617,353	5,491,074	6,148,506	5,941,935	5,957,386	6,168,884
North Carolina	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274	2,874,700	2,842,968	2,911,221	3,042,021	3,092,963	3,227,688	3,313,096
North Dakota	433,296	452,728	452,771	467,847	443,692	407,250	408,449	403,067	390,085	390,514	385,715	376,068	381,284
Ohio	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574	4,766,658	4,561,134	4,634,793	4,744,494	4,739,030	4,878,206	5,012,222
Oklahoma	1,743,196	1,832,255	1,981,335	1,984,458	1,897,821	1,845,259	1,922,403	1,929,207	1,907,622	1,877,793	1,890,867	1,848,704	1,772,817
Oregon	1,224,276	1,310,983	1,369,886	1,441,866	1,385,047	1,330,612	1,271,001	1,211,110	1,222,903	1,263,213	1,254,669	1,294,515	1,312,919
Pennsylvania	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328	4,474,475	4,384,130	4,370,547	4,422,336	4,429,756	4,523,848	4,590,386
Rhode Island	395,532	384,525	405,832	412,404	397,229	381,826	368,524	360,833	365,634	369,612	379,026	394,173	396,573
South Carolina	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787	1,529,196	1,515,808	1,539,188	1,601,942	1,630,720	1,700,307	1,680,761
South Dakota	501,005	474,182	489,910	497,196	458,549	423,517	403,635	393,021	389,287	389,407	387,453	394,961	392,527
Tennessee	2,367,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939	2,388,466	2,355,395	2,331,655	2,501,396	2,534,948	2,651,534	2,754,514
Texas	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499	8,149,252	8,201,687	8,393,680	8,501,979	8,899,228	9,085,634	8,865,928
Utah	646,942	680,027	714,148	761,968	730,529	734,992	768,450	734,020	725,317	854,992	755,798	766,726	764,441
Vermont	240,270	255,094	260,155	269,204	252,404	238,842	234,114	236,905	242,056	252,093	252,812	259,631	282,232
Virginia	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199	2,530,673	2,493,638	2,554,245	2,665,515	2,719,453	2,815,511	2,993,746
Washington	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513	1,872,364	1,851,127	1,919,152	2,000,333	1,912,436	2,034,097	2,215,350
West Virginia	813,024	872,009	900,930	909,773	888,849	845,242	804,632	810,848	801,736	800,672	801,431	806,401	829,349
Wisconsin	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363	2,067,800	1,982,060	2,011,843	2,022,610	2,022,990	2,061,116	2,046,604
Wyoming	319,042	343,229	361,399	388,681	381,674	373,723	375,068	359,425	338,752	358,077	332,978	328,877	313,409
TOTAL	104,516,610	109,873,935	113,102,038	116,780,787	112,678,296	106,378,366	104,248,792	102,747,065	104,231,431	108,248,222	108,876,519	111,933,927	113,930,531

See notes and sources at end of table

Section VII
Table 8b

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1988	1989	1990
Alabama	2,072,236	2,122,111	2,120,444
Alaska	246,038	239,017	274,133
Arizona	1,708,609	1,744,554	1,694,334
Arkansas	1,272,178	1,274,999	1,262,151
California	12,900,366	13,338,831	13,304,359
Colorado	1,561,689	1,535,449	1,547,261
Connecticut	1,397,428	1,386,722	1,348,658
Delaware	347,242	349,255	346,981
Dist. of Col.	186,686	182,674	174,175
Florida	6,040,283	6,138,092	6,166,807
Georgia	3,539,768	3,573,874	3,571,616
Hawaii	376,090	392,495	388,769
Idaho	478,952	489,747	496,127
Illinois	4,971,834	4,993,663	5,253,312
Indiana	2,760,066	2,675,098	2,696,418
Iowa	1,395,039	1,409,951	1,376,530
Kansas	1,326,752	1,294,231	1,249,019
Kentucky	1,889,808	1,861,889	1,850,870
Louisiana	2,064,779	2,043,286	1,897,677
Maine	658,179	627,639	611,394
Maryland	2,099,811	2,157,848	2,091,205
Massachusetts	2,542,571	2,520,043	2,432,912
Michigan	4,389,647	4,376,926	4,371,053
Minnesota	2,092,710	2,102,362	2,077,581
Mississippi	1,264,910	1,258,286	1,265,062
Missouri	2,780,023	2,758,383	2,752,483
Montana	448,745	444,019	447,363
Nebraska	801,447	801,115	795,515
Nevada	605,424	633,267	651,818
New Hampshire	527,610	527,053	510,137
New Jersey	3,491,849	3,531,163	3,527,419
New Mexico	828,818	820,566	811,429
New York	5,698,886	5,769,796	5,996,576
North Carolina	3,387,273	3,369,498	3,337,499
North Dakota	365,846	361,259	352,200
Ohio	5,013,407	5,024,784	4,795,925
Oklahoma	1,685,946	1,678,029	1,712,492
Oregon	1,364,831	1,366,267	1,366,546
Pennsylvania	4,766,668	4,710,022	4,722,253
Rhode Island	401,304	384,987	380,238
South Carolina	1,595,246	1,829,113	1,866,536
South Dakota	396,289	398,125	393,896
Tennessee	2,541,699	2,632,750	2,494,386
Texas	8,890,051	8,749,439	8,859,462
Utah	779,897	751,078	724,524
Vermont	291,291	283,993	290,641
Virginia	3,022,281	3,042,734	3,026,255
Washington	2,158,790	2,316,135	2,311,131
West Virginia	840,609	836,891	848,683
Wisconsin	2,117,182	2,122,168	2,122,743
Wyoming	318,867	325,962	307,602
TOTAL	114,703,950	115,557,638	115,274,600

(a) The gallonage shown above represents consumption of motor gasoline, excluding sales to U.S. Government and sales of aviation gasoline. Excludes exports and dealer transfers.
(b) Prior to 1962 data not available on a comparable basis.
NA=Not Available

SOURCE: American Petroleum Institue, Gasoline Consumption in the United States.
Federal Highway Administration, "Monthly Motor Fuel Reported by States"
Federal Highway Administration, Highway Statistics (Annual) Table MF-33GA.

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,328	4,346
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883
Kansas	2,881	4,094	3,185	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,428	6,434
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,088
Massachuset	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656
New Hampsh	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779
N. Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,408
N. Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	34,221
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,909	10,981	10,862	10,132	9,380
Pennsylvania	19,916	22,198	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250
S. Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266
S. Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,256	4,655
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915
W. Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,099	17,149	20,136
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697
TOTAL	298,014	341,973	329,196	395,306	448,908	479,210	488,844	526,245	581,127	615,775	617,275	653,559

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	4,891	5,370	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510
Alaska	2,618	2,616	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082
Arizona	2,100	2,774	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898
Arkansas	2,175	2,052	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474
California	26,357	26,897	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188
Colorado	3,099	4,225	4,441	4,148	4,581	4,074	4,002	4,670	4,811	5,574	5,490	5,211
Connecticut	22,176	23,230	23,199	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147
Delaware	2,487	2,723	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,087	4,309
Dist. of Col.	2,719	2,914	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934
Florida	8,190	8,971	9,389	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,898
Georgia	4,731	5,117	5,269	6,218	6,969	6,977	8,656	10,059	11,558	12,013	12,540	12,784
Hawaii	--	876	1,866	1,641	1,375	1,769	1,813	1,369	1,190	1,381	1,573	1,895
Idaho	3,734	4,055	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597
Illinois	43,008	42,490	42,255	41,361	41,421	41,580	41,702	39,831	39,846	42,795	44,496	44,517
Indiana	24,500	25,596	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363
Iowa	11,360	11,141	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,881
Kansas	5,060	4,751	5,187	5,242	5,812	5,487	5,405	6,310	6,009	6,860	6,488	7,559
Kentucky	5,800	4,833	4,426	5,822	5,532	5,697	5,859	7,068	6,901	7,304	7,885	8,209
Louisiana	11,249	10,694	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,798
Maine	7,108	7,456	8,307	8,645	9,487	8,792	9,424	9,036	10,110	10,847	11,417	11,837
Maryland	12,495	13,101	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860
Massachuset	47,781	51,022	52266	53,449	51,664	49,966	56,694	51,262	54,943	56,315	58,399	5u,211
Michigan	28,387	30,464	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,801	37,473	38,108
Minnesota	15,079	16,241	15,967	16,778	16,629	16,739	19,227	21,186	20,083	22,233	22,121	22,390
Mississippi	2,318	2,364	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987
Missouri	12,700	12,830	12,859	13,412	13,939	13,884	14,077	13,906	13,924	17,067	18,473	18,218
Montana	4,474	4,877	5,248	5,522	5,400	5,684	5,041	5,802	3,458	4,119	4,869	4,823
Nebraska	3,929	4,183	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459
Nevada	2,051	2,428	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832
New Hampsh	4,049	4,484	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676
New Jersey	45,634	45,542	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447
New Mexico	2,302	3,065	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,180	4,547	5,405
New York	79,499	81,677	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122
N. Carolina	11,544	13,353	13,386	15,617	16,000	16,249	17,428	20,889	20,577	19,944	20,407	22,553
N. Dakota	3,632	3,775	3,893	4,472	4,584	4,529	5,252	6,008	6,038	6,156	5,959	4,973
Ohio	24,850	23,836	23,430	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435
Oklahoma	2,603	2,631	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573
Oregon	10,456	10,920	11,081	11,777	12,828	13,855	13,295	13,837	13,080	13,298	13,846	12,895
Pennsylvania	44,029	45,668	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544
Rhode Island	7,167	8,093	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623
S. Carolina	4,454	5,203	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469
S. Dakota	2,882	2,964	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372
Tennessee	5,037	5,268	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945
Texas	26,541	24,315	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398
Utah	3,478	3,841	3,085	3,807	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104
Vermont	2,399	2,930	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732
Virginia	12,984	14,184	14,631	15,843	16,945	16,542	18,941	21,304	21,798	22,286	23,218	24,824
Washington	16,867	18,045	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188
W. Virginia	2,154	2,462	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913
Wisconsin	20,316	21,711	22,153	23,399	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827
Wyoming	3,539	3,258	3,250	3,838	3,815	3,653	3,743	3,038	4,023	5,153	5,249	5,055
TOTAL	658,992	683,325	690,874	729,095	748,124	747,551	786,891	809,713	829,200	873,100	900,300	927,250

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	8,849	12,093	13,988	14,761	14,488	18,032	19,624	20,194	15,996	19,419	17,939	15,436
Alaska	6,352	6,207	6,384	6,591	6,946	9,517	10,187	10,571	5,808	6,781	6,548	6,335
Arizona	5,242	8,786	15,118	11,197	11,481	10,181	13,727	13,829	13,194	11,330	9,741	8,102
Arkansas	5,489	9,412	9,949	10,316	9,392	10,228	12,451	13,014	16,163	14,209	13,116	13,336
California	47,357	45,797	51,165	42,991	43,129	45,545	54,000	60,126	68,104	61,338	67,494	67,337
Colorado	6,242	6,784	7,737	8,712	8,590	9,408	9,668	10,023	10,451	9,665	8,634	9,132
Connecticut	24,100	24,735	25,181	22,677	21,844	23,706	23,249	23,011	27,916	22,499	19,745	20,509
Delaware	4,345	4,298	4,382	4,310	4,487	4,615	5,096	4,840	3,685	3,702	3,133	2,753
Dist. of Col.	3,834	3,314	3,462	3,497	3,112	3,781	4,005	6,204	4,364	3,436	2,125	2,215
Florida	16,525	19,488	22,662	22,599	23,083	24,268	28,236	28,920	28,084	28,520	29,816	22,503
Georgia	14,638	16,491	20,478	20,835	16,922	22,480	22,559	19,641	18,692	19,397	19,388	18,387
Hawaii	1,706	1,622	1,839	1,897	2,512	2,370	3,502	3,246	6,451	5,915	6,043	4,570
Idaho	5,702	5,866	6,297	6,876	7,378	7,346	7,983	8,362	6,504	4,879	4,775	4,496
Illinois	49,467	55,276	54,288	53,950	52,103	58,877	58,459	61,760	48,584	36,086	34,427	32,521
Indiana	30,670	34,233	34,353	34,516	33,314	36,193	38,044	39,278	35,653	30,488	28,961	28,913
Iowa	14,242	14,975	15,467	14,751	14,249	15,257	16,012	16,687	20,595	15,793	14,374	16,212
Kansas	8,401	9,166	10,330	11,080	11,328	11,986	12,484	14,317	18,960	13,923	13,239	13,817
Kentucky	7,776	9,470	10,457	10,176	10,760	13,568	16,845	18,809	20,808	22,598	18,217	17,507
Louisiana	13,384	17,644	24,677	24,766	22,139	23,324	32,251	33,185	37,224	32,804	37,964	30,858
Maine	12,120	12,744	12,147	11,659	11,331	13,407	14,478	13,373	11,218	10,627	9,266	9,189
Maryland	20,000	21,435	22,591	22,094	21,712	20,571	21,748	21,341	23,971	22,417	18,365	16,198
Massachuset	61,609	63,616	62,970	58,934	57,195	61,666	59,564	57,446	42,347	37,413	32,155	32,263
Michigan	41,684	48,660	47,146	44,204	41,747	43,826	44,835	45,461	30,892	27,841	26,657	22,819
Minnesota	23,777	25,979	26,768	24,185	23,974	27,513	26,645	27,807	26,069	21,826	18,714	20,880
Mississippi	7,215	9,413	13,045	14,372	12,188	13,713	14,584	16,306	12,277	12,905	13,487	11,849
Missouri	16,350	18,101	18,781	17,424	17,106	19,555	20,588	23,027	22,780	18,159	18,003	20,738
Montana	5,709	6,121	6,924	7,646	7,459	8,383	8,141	8,114	7,774	6,626	6,486	5,814
Nebraska	7,604	9,002	9,262	8,684	8,363	10,178	10,643	12,127	12,601	9,145	8,233	9,176
Nevada	3,151	2,924	3,304	2,561	2,535	2,715	3,055	3,822	3,189	4,022	3,488	3,518
New Hampsh	8,085	8,303	8,208	7,551	7,047	8,758	8,231	8,292	5,741	5,845	5,313	5,084
New Jersey	64,769	72,659	74,564	67,426	58,937	61,787	60,052	56,592	50,447	52,719	50,973	45,546
New Mexico	5,395	6,569	7,948	7,635	8,080	8,022	9,337	9,633	10,431	10,222	12,526	7,954
New York	113,833	122,075	120,200	108,677	104,646	115,237	114,446	114,344	88,449	72,515	64,263	62,608
N. Carolina	21,609	23,030	24,898	22,246	20,965	23,881	27,107	24,740	29,404	23,820	21,228	20,184
N. Dakota	4,915	5,136	4,626	4,303	4,362	4,061	4,069	4,194	8,268	8,037	7,708	7,209
Ohio	35,090	41,414	41,415	40,831	42,160	51,519	52,501	55,346	44,952	48,397	44,959	40,250
Oklahoma	5,473	7,828	8,814	8,744	9,896	11,775	12,775	14,477	14,119	12,051	15,519	14,557
Oregon	14,162	15,467	16,070	14,324	13,240	14,062	16,794	16,671	19,281	17,051	16,462	15,020
Pennsylvania	63,221	70,757	70,79[illegible]	71,508	66,341	74,691	77,861	73,311	76,651	68,066	59,077	53,065
Rhode Island	9,070	9,176	8,693	8,038	7,787	8,478	8,199	7,679	7,042	5,046	3,993	3,984
S. Carolina	9,114	9,722	10,956	9,638	8,132	10,218	12,972	11,023	11,894	10,730	9,841	9,462
S. Dakota	4,600	4,469	4,140	3,586	3,821	3,311	3,042	3,670	6,166	4,842	4,406	5,131
Tennessee	11,609	14,218	15,310	15,815	17,657	21,469	24,071	26,825	23,504	18,818	19,512	18,764
Texas	34,684	46,515	57,567	58,766	55,262	58,655	74,678	81,171	96,359	95,939	90,359	90,180
Utah	6,515	6,310	7,792	8,624	8,962	8,367	8,631	9,023	8,150	7,412	7,115	6,425
Vermont	5,472	5,729	6,001	4,981	4,566	5,394	5,274	5,135	5,389	4,076	3,828	2,707
Virginia	24,441	25,020	26,561	24,938	24,534	25,339	28,332	27,161	33,726	24,406	23,638	21,943
Washington	18,621	19,090	20,091	16,345	16,606	18,405	19,800	20,765	21,776	18,709	17,695	18,200
W. Virginia	4,658	5,532	5,922	5,622	6,478	6,807	9,019	8,796	10,904	10,340	9,450	7,659
Wisconsin	26,520	26,781	27,264	26,330	26,035	30,366	31,107	32,940	31,504	22,539	20,726	20,537
Wyoming	5,724	5,419	6,138	6,897	7,565	8,120	9,211	10,423	10,063	11,375	12,452	11,015
TOTAL	971,320	1,074,870	1,135,063	1,081,086	1,043,746	1,150,929	1,230,179	1,257,061	1,214,374	1,086,709	1,032,476	974,864

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	15,457	16,243	16,402	16,596	18,885	20,420	24,740	25,460
Alaska	7,066	7,840	10,163	7,994	8,198	8,986	11,070	11,493
Arizona	8,792	9,885	10,049	11,147	10,405	10,381	11,307	11,903
Arkansas	13,389	14,230	15,076	13,536	13,703	14,313	14,640	14,317
California	68,413	76,288	72,468	74,955	74,040	84,963	81,976	82,307
Colorado	10,915	11,344	9,621	10,140	9,876	11,203	10,255	10,344
Connecticut	16,933	18,544	18,937	20,501	21,082	22,801	25,553	20,352
Delaware	3,376	3,556	3,398	3,281	4,047	3,827	4,279	3,201
Dist. of Col.	2,769	3,054	2,476	2,835	2,668	3,410	3,340	2,501
Florida	27,765	29,210	30,320	31,953	32,960	34,714	34,805	34,556
Georgia	21,917	23,865	23,676	24,528	26,007	27,898	28,186	28,475
Hawaii	2,327	2,766	4,631	4,676	4,289	6,089	6,056	6,846
Idaho	5,263	5,898	5,596	5,914	6,390	6,505	6,860	7,154
Illinois	35,503	37,485	32,649	35,073	34,387	33,807	34,691	42,351
Indiana	27,720	31,123	30,734	31,758	31,747	28,813	33,440	32,656
Iowa	14,086	15,314	15,461	15,898	15,750	16,024	14,961	15,160
Kansas	13,921	15,068	14,954	14,201	16,644	16,576	15,768	16,517
Kentucky	20,442	22,061	21,722	20,311	20,547	24,693	28,308	23,471
Louisiana	31,105	31,448	33,660	35,006	36,727	39,070	37,231	39,164
Maine	7,325	8,339	9,580	11,470	11,965	13,674	12,291	11,960
Maryland	16,381	18,704	17,849	17,747	18,021	18,087	20,837	17,058
Massachuset	31,384	32,693	32,511	34,707	36,951	35,748	39,299	33,997
Michigan	22,525	24,282	25,625	26,691	25,615	27,940	25,311	23,544
Minnesota	17,413	18,142	19,463	18,956	18,326	19,975	19,262	18,450
Mississippi	13,306	14,118	15,923	14,842	16,732	19,062	17,144	16,131
Missouri	16,762	18,543	19,532	18,358	19,344	21,145	22,135	20,698
Montana	8,883	9,366	11,334	6,999	6,548	6,268	7,678	7,386
Nebraska	11,580	12,007	12,356	12,004	12,324	13,942	12,474	12,442
Nevada	5,304	5,561	5,431	5,575	6,506	6,780	7,444	7,339
New Hampsh	4,520	4,762	5,246	5,765	7,539	6,770	7,575	6,311
New Jersey	38,917	40,323	40,122	45,606	43,194	45,245	44,211	34,371
New Mexico	6,705	7,103	8,513	9,704	10,632	10,184	9,078	9,176
New York	56,525	58,478	61,513	70,851	72,661	75,232	75,676	65,985
N. Carolina	24,626	26,155	24,853	27,585	28,376	31,519	27,030	25,004
N. Dakota	6,867	7,405	7,495	7,394	6,810	6,776	7,039	6,743
Ohio	33,180	35,888	36,069	35,814	33,555	36,999	38,230	36,727
Oklahoma	16,635	17,931	18,341	13,836	13,897	14,858	14,720	15,359
Oregon	16,094	15,728	15,429	14,889	16,207	16,479	16,303	16,962
Pennsylvania	51,763	54,048	53,052	53,529	57,419	58,510	61,359	53,860
Rhode Island	4,736	4,905	4,457	5,308	6,045	5,944	5,913	4,684
S. Carolina	10,592	11,520	11,814	11,716	11,913	12,616	12,527	14,574
S. Dakota	4,464	4,876	4,989	6,044	5,895	6,208	5,425	5,487
Tennessee	21,519	23,895	22,309	22,414	22,464	23,281	23,051	23,838
Texas	95,849	96,771	95,235	86,265	88,658	86,572	87,078	82,235
Utah	6,459	6,997	5,951	7,428	6,792	7,328	6,195	7,324
Vermont	3,457	3,709	4,182	3,943	4,355	4,639	4,614	4,036
Virginia	25,087	25,948	25,263	28,439	29,361	32,658	29,287	28,316
Washington	16,382	18,187	20,408	23,288	21,243	21,097	21,015	21,764
W. Virginia	9,930	10,424	9,779	7,583	8,912	8,860	10,215	9,720
Wisconsin	20,399	21,867	22,516	21,825	21,033	24,175	24,516	23,210
Wyoming	7,219	7,321	7,697	6,864	8,767	9,427	9,826	9,586
TOTAL	981,926	1,041,217	1,046,827	1,063,740	1,086,413	1,142,510	1,152,225	1,102,503

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

SOURCE: 1947-1975: U.S.Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual
1976-1990: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Petroleum Supply Annuals
Petroleum Marketing Monthly and Annual.

United States Deliveries of Distillate Fuel Oil by Uses
(Thousands of Barrels)

Year	Heating Oils	Industrial Use(d)	Oil Company Fuel	Electric Utility Company(c)	Railroads	Vessel Bunkering	Military Use(e)	Diesel	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	34,980	12,087	488,844
1954	320,117	41,589	7,699	6,070	77,389	15,563	8,752	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	48,870	9,908	615,775
1957	377,044	43,532	10,419	5,296	88,315	20,420	12,737	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	65,186	9,054	653,559
1959 (a)	415,521	33,380	8,642	5,005	87,802	19,250	11,394	70,527	7,471	658,992
1960 (b)	438,010	34,271	8,347	4,742	86,490	18,730	10,793	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,803	15,836	13,041	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,612	89,104	16,642	16,303	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	(g)	147,831	829,200
1968	510,682	45,795	9,975	8,509	84,030	18,235	12,593	171,773	11,508	873,100
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	276,961	11,876	1,135,063
1974	493,223	64,036	13,805	84,661	102,949	24,757	17,748	269,776	10,131	1,081,086
1975	488,388	63,993	13,633	63,420	93,191	26,138	18,004	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	360,799	14,059	1,257,061
1979	454,955	99,583	22,043	46,579	103,493	41,725	18,570	392,614	34,812	1,214,374
1980	393,112	86,089	24,205	31,812	102,022	35,201	19,138	375,136	19,994	1,086,709
1981	345,728	80,216	29,185	18,192	100,482	41,025	17,763	378,853	21,032	1,032,476
1982	324,912	71,340	29,482	12,134	93,150	33,885	15,201	375,124	19,639	974,864
1983	339,455	54,030	21,510	11,744	76,230	39,108	15,804	408,594	15,451	981,926
1984	352,127	56,114	21,623	16,405	82,308	40,287	16,579	439,786	15,988	1,041,217
1985	358,058	61,730	20,869	12,246	76,422	45,102	18,290	449,912	4,198	1,046,827
1986	356,380	63,907	17,857	14,628	73,800	48,434	18,105	467,280	3,349	1,063,740
1987	355,899	69,467	20,994	15,383	74,944	52,935	21,057	473,930	1,805	1,086,413
1988	362,329	62,325	20,765	19,050	77,601	55,009	23,354	520,489	1,590	1,142,510
1989	346,590	61,078	20,124	25,688	77,720	56,106	22,103	542,124	693	1,152,225

See notes and sources at end of table

United States Deliveries of Distillate Fuel Oil by Uses
(Thousands of Barrels)

Year	Heating Oils	Industrial Use(d)	Oil Company Fuel	Electric Utility Company(c)	Railroads	Vessel Bunkering	Military Use(e)	Diesel	All Other	Total
1990	305,226	58,389	23,066	17,469	76,431	52,310	18,676	550,877	61	1,102,503

(a) Includes Alaska
(b) Includes Alaska and Hawaii
(c) Includes gas turbine plants in 1968 and subsequent years. Includes kerosine-type jet fuel: 1976- 11,600 bbls per day. 1977- 18,700 bbls. per day; 1978- 12,343 bbls per day.
(d) Excludes oil company use
(e) Includes imports by military
(f) Beginning in 1979, heating oil is no longer a separate category. The figure is derived by adding residential, commercial and farming.
(g) Included under all other

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual
1975-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1988: U.S. Energy Information Administration, Petroleum Marketing Monthly and Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales.

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	574
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34
Arkansas	2,253	2,080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,343	28,909	32,236	34,910	36,229	37,470	33,310
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,339	46,154	44,587	45,136	36,841	41,422
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,260	18,530	9,721	11,028
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11,127	10,350
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,965	4,291	4,389	4,383	4,660	4,886
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162
West Virginia	828	1,171	1,366	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167
Wyoming	3,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842
U.S. Total	520,529	506,497	494,933	554,208	563,388	556,273	564,729	520,714	556,983	561,538	543,950	531,367	554,352

See notes and sources at end of table

Section VII
Table 11a

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,202	3,555	2,749	3,184	2,274	2,459	1,652	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	695	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	95	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	474	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	78,774	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	1,790	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,450	14,549	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	6,081	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	2,387	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	11,042	11,148	10,748	10,656
Florida	28,978	32,600	37,044	36,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	6,413	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	5,613	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	201	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,893	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	12,885	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,021	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	2,249	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	321	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,599	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	5,742	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	16,490	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	38,942	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	11,242	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	6,363	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	339	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	3,026	2,638	2,131	2,335	2,400	3,252	2,623	3,317	3,379	3,640	3,615	2,904	2,552
Montana	2,022	2,533	3,049	2,836	2,356	1,195	1,371	1,189	1,495	1,524	1,249	1,236	1,485
Nebraska	378	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	202	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,324	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,791	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	173	311	323	209	146	655	363	111	90	95	215	466	621
New York	76,586	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,537	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	663	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	11,382	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	1,396	873	967	797	825	795	637	776	866	683	744	637	1,355
Oregon	5,453	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	42,731	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	51,489	60,389	59,973	58,490
Rhode Island	9,502	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	4,634	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	60	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	184	171	105	275	287	276	331	465	334	786	596	365	523
Texas	22,102	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,562	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	498	540	629	607	413	937	1,048	504	547	677	903	898	954
Virginia	17,448	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	9,179	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,451	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,275	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	1,738	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S. Total	550,536	542,986	548,433	538,522	556,632	574,118	613,972	639,539	669,484	722,529	804,287	838,044	925,647

See notes and sources at end of table

Section VII
Table 11b

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	6,151	10,496	13,220	14,684	16,272	16,443	11,294	8,820	4,686	6,350	3,764	4,150	3,773
Alaska	1,051	1,098	1,104	1,342	1,738	2,595	321	397	249	301	60	67	896
Arizona	4,288	6,943	5,182	4,108	7,478	3,413	5,032	1,046	227	297	616	562	10
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747	11,813	5,472	2,449	1,803	775	1,045	2,545
California	121,059	105,314	113,782	136,080	180,436	140,595	160,428	162,365	126,463	81,392	62,534	67,319	59,892
Colorado	2,317	3,177	3,591	3,903	3,502	4,091	1,041	1,373	165	14	342	324	214
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325	27,241	28,209	21,951	21,349	35,676	32,541	23,414
Delaware	13,117	12,632	10,239	11,332	11,524	11,376	11,073	12,889	8,671	6,289	3,627	3,290	1,342
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235	767	444	389	1,527	918	857	509
Florida	82,873	75,440	78,885	92,171	85,323	91,175	98,722	96,955	90,347	63,079	35,937	32,561	32,515
Georgia	13,888	13,454	9,831	12,257	12,666	11,988	13,368	8,512	6,251	5,562	5,013	4,489	8,859
Hawaii	11,580	11,219	10,776	11,778	12,512	12,795	12,641	13,251	13,311	13,323	14,649	13,623	13,728
Idaho	243	597	703	803	697	1,003	580	460	55	223	113	107	414
Illinois	28,795	28,521	26,948	23,659	26,598	30,111	26,675	28,023	21,399	15,507	8,686	7,505	4,899
Indiana	15,536	16,078	14,052	19,788	19,447	19,004	16,271	14,335	7,638	4,856	3,262	2,862	4,712
Iowa	679	628	405	588	764	599	836	360	100	321	208	180	225
Kansas	2,847	2,660	5,945	6,416	6,307	6,686	4,830	1,046	697	993	1,832	1,580	95
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506	1,151	966	1,150	1,197	1,275	1,094	779
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252	63,359	72,686	55,687	48,260	44,187	49,625	45,953
Maine	19,860	15,272	10,064	13,116	12,234	11,415	10,738	8,413	10,090	15,803	5,742	5,183	3,687
Maryland	42,534	39,310	25,538	27,330	26,122	28,217	23,851	16,090	12,396	11,898	11,958	10,795	6,562
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208	58,958	52,948	49,673	42,762	24,722	22,463	30,046
Michigan	14,560	14,876	18,739	20,656	21,345	24,871	18,547	11,934	8,947	4,285	3,823	3,290	3,298
Minnesota	7,069	5,883	4,322	5,796	4,414	4,576	2,695	3,044	1,460	1,732	1,688	1,487	1,225
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308	24,740	17,459	9.725	5,570	2,381	2,375	1,466
Missouri	2,959	2,375	2,992	2,948	3,647	3,620	3,196	1,370	656	856	580	500	920
Montana	1,705	2,290	2,186	2,549	2,414	2,665	4,188	3,012	2,519	1,668	1,418	1,349	640
Nebraska	639	1,045	1,077	1,650	1,189	1,410	622	78	57	198	113	97	77
Nevada	612	690	1,456	649	1,455	2,756	1,541	2,503	250	119	90	80	39
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408	6,109	5,437	4,835	4,106	1,680	1,519	804
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726	60,980	53,167	38,279	34,241	52,464	47,312	37,754
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081	596	1,305	856	716	3,576	4,823	2,755
New York	169,669	155,327	146,837	157,812	157,773	153,037	130,344	112,872	97,868	90,073	73,436	66,754	50,662
North Carolina	15,393	13,819	7,786	12,667	14,499	12,814	11,889	9,114	5,677	5,971	6,297	5,680	4,537
North Dakota	898	1,190	1,101	1,045	889	950	801	701	1,130	1,171	1,645	1,410	635
Ohio	6,866	8,330	9,957	11,041	14,491	13,431	9,674	6,282	5,920	2,488	4,346	3,742	2,740
Oklahoma	1,629	1,201	752	683	661	987	820	719	745	700	559	479	264
Oregon	7,439	6,650	4,484	3,606	3,395	5,087	5,526	4,562	6,407	10,927	4,607	4,893	4,352
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366	45,365	34,777	30,340	20,789	21,706	19,687	13,153
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088	2,387	2,230	2,227	1,791	1,060	958	1,222
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579	11,249	7,127	5,142	2,965	4,260	3,818	2,275
South Dakota	234	137	153	299	260	213	166	115	161	51	147	126	44
Tennessee	650	883	734	3,085	3,404	2,529	2,276	1,472	1,239	748	1,131	969	675
Texas	29,208	36,891	41,072	44,195	52,178	63,634	73,206	73,189	68,671	62,069	45,725	49,104	43,173
Utah	3,649	4,295	4,698	4,917	4,565	4,441	2,374	2,584	1,064	886	1,736	1,660	1,951
Vermont	876	535	818	1,285	1,136	1,073	337	471	351	372	345	312	88
Virginia	46,123	43,274	40,015	40,108	41,171	37,371	34,020	24,704	13,072	9,591	10,068	9,109	8,206
Washington	10,986	10,365	8,627	7,675	9,683	12,647	13,893	17,332	16,505	14,029	5,358	5,153	8,643
West Virginia	1,448	1,709	1,847	4,146	4,039	3,082	1,982	1,465	1,001	1,443	1,190	1,074	702
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613	1,915	1,751	871	2,212	876	834	456
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090	2,182	1,630	2,009	1,634	401	380	1,016
U.S. Total	1,030,177	963,216	898,572	1,025,148	1,120,927	1,103,233	1,034,610	937,466	762,028	626,510	518,604	501,199	438,840

See notes and sources at end of table

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1986	1987	1988	1989	1990
Alabama	9,243	10,910	13,103	14,006	3,645
Alaska	5.125	1,363	258	103	238
Arizona	29	15	39	88	80
Arkansas	6,437	2,690	1,905	3,406	214
California	62,987	60,082	64,677	55,789	69,212
Colorado	1,040	211	25	154	12
Connecticut	14,272	20,900	19,526	19,385	15,053
Delaware	2,195	3,818	4,706	5,357	3,945
Dist. of Col.	780	582	176	109	207
Florida	48,576	36,668	48,680	49,620	56,616
Georgia	2,229	2,199	2,244	1,434	3,139
Hawaii	13,307	12,587	15,456	20,127	18,144
Idaho	85	390	254	343	60
Illinois	7,358	7,106	6,318	5,006	3,306
Indiana	5,201	3,782	3,389	4,241	3,560
Iowa	614	126	279	241	116
Kansas	571	345	768	415	255
Kentucky	893	897	616	623	502
Louisiana	37,339	43,913	45,370	43,414	21,616
Maine	9,481	7,451	9,746	8,434	10,301
Maryland	6,465	7,919	8,489	12,755	10,163
Massachusetts	47,932	38,772	34,806	30,600	30,071
Michigan	4,214	3,002	4,591	4,663	2,760
Minnesota	2,170	1,271	1,378	1,398	897
Mississippi	12,820	2,613	8,178	17,210	3,458
Missouri	879	950	1,026	1,031	818
Montana	201	140	998	1,372	203
Nebraska	241	337	468	474	239
Nevada	442	376	965	672	261
New Hampshire	5,428	4,481	5,950	5,657	5,303
New Jersey	36,911	20,639	24,863	22,138	17,508
New Mexico	1,638	589	664	2,077	132
New York	66,353	68,697	82,223	75,935	80,238
North Carolina	4,180	4,484	4,604	2,744	5,461
North Dakota	468	381	382	396	312
Ohio	2,779	2,162	3,081	2,872	1,593
Oklahoma	466	348	712	506	601
Oregon	5,724	4,348	4,794	4,907	4,144
Pennsylvania	19,039	18,179	17,636	16,685	18,138
Rhode Island	2,515	1,917	1,927	1,046	1,263
South Carolina	1,753	1,676	2,438	1,498	2,251
South Dakota	71	57	81	87	56
Tennessee	702	337	483	609	286
Texas	37,177	36,300	32,178	32,973	25,651
Utah	1,494	2,185	1,302	1,904	399
Vermont	298	240	176	92	221
Virginia	8,309	9,490	7,613	9,006	8,390
Washington	16,489	11,229	11,915	14,403	15,200
West Virginia	750	382	467	477	1,186
Wisconsin	1,245	1,242	1,187	1,356	1,037
Wyoming	803	726	1,163	232	37
U.S. Total	517,717	461,504	504,275	500,067	448,521

See notes and sources at end of table

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

SOURCE: 1947-1972: U.S. Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual.
1973-1978: U.S Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1984: U.S. Energy Information Administration, Petroleum Marketing Monthly, July 1985.
1985-1988: U.S. Energy Information Administration, Petroleum Marketing Monthly and Annual.
1989: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales.

United States Sales of Residual Fuel Oil by Uses
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(c)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(e)	Military Use(d)	All Other	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959(a)	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960(b)	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	73,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	838,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233
1979	190,543	486,636	245	51,062	198,759	82,729	7,736	16,900	1,034,610
1980	213,131	390,105	665	59,519	163,564	98,034	8,066	4,382	937,466
1981	188,632	325,486	178	51,870	117,024	67,035	7,008	4,795	762,030
1982	152,586	227,419	170	45,319	122,619	65,781	7,829	4,784	626,510
1983	136,290	204,238	47	28,604	93,624	35,979	5,411	14,412	518,604
1984	135,408	186,318	43	27,680	94,375	33,777	5,291	18,307	501,199
1985	130,323	147,238	148	18,477	95,509	31,592	4,593	10,962	438,840
1986	125,889	215,276	14	18,239	106,962	39,595	4,308	7,434	517,717
1987	125,221	181,712	7	11,967	90,723	42,013	4,549	5,314	461,504

See notes and sources at end of table

Section VII
Table 12a

United States Sales of Residual Fuel Oil by Uses
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(c)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(e)	Military Use(d)	All Other	All Uses
1988	124,976	227,164	1	10,317	91,787	42,589	3,269	4,173	504,275
1989	128,816	233,285	4	9,600	88,397	36,596	2,506	864	500,068
1990	148,764	200,797	0	7,485	53,044	35,793	1,952	686	448,521

(a) Includes Alaska
(b) Includes Hawaii
(c) Beginning in 1967, represented use by electric public-utility plants only.
(d) Includes imports by military.
(e) Beginning in 1979, heating oil has been reclassified commercial and is a part of the total called "heating and industrial."
(f) Included in All Other

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals
1976-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1987: U.S. Energy Information Administration, Petroleum Marketing Monthly, July issues.
1988: U.S. Energy Information Administration, Petroleum Marketing Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales, Annuals.

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1965(a)	226	44	270	8,338	–	270	2	268
1966	245	35	280	7,235	-3	283	4	279
1967	300	15	315	9,037	5	310	5	305
1968	332	19	351	8,904	–	351	5	346
1969	287	14	301	8,556	-1	302	5	297
1970	230	20	250	6,621	-5	255	6	249
1971	234	30	264	6,990	1	263	3	260
1972	209	33	242	6,147	-2	244	2	242
1973	181	36	217	5,599	-2	219	2	217
1974	195	27	222	5,529	–	222	–	222
1975	180	28	208	5,222	-1	209	–	209
1976	187	15	202	6,495	3	199	–	199
1977	186	21	207	6,285	-1	208	–	208
1978	179	19	198	5,958	-1	199	–	199
1979	176	22	198	5,599	-1	200	–	200
1980	188	31	219	6,308	2	217	–	217
1981	193	7	200	7,054	2	199	1	198
1982	201	5	206	5,667	-4	210	1	209
1983	205	1	206	6,265	-1	208	1	207
1984	213	14	227	6,861	2	226	3	223
1985	206	9	215	6,654	-1	215	1	214
Jan.	185	19	204	6,415	-14	219	1	218
Feb.	195	9	204	6,183	-8	212	0	212
Mar.	189	17	206	6,767	19	187	0	187
Apr.	222	3	225	6,205	-19	244	0	244
May	230	6	236	6,428	7	228	0	228
Jun.	211	15	226	6,227	-7	232	0	232
Jul.	224	8	232	6,977	24	207	0	207
Aug.	209	3	212	6,982	–	213	2	211
Sep.	206	0	206	6,857	-4	210	2	208
Oct.	203	13	216	6,738	-4	220	3	217
Nov.	209	9	218	6,793	2	217	6	211
Dec.	189	2	191	6,654	-4	195	3	192
1986	196	9	205	7,072	1	203	1	202
Jan.	193	2	195	6,534	-4	200	0	200
Feb.	173	2	175	6,264	-10	184	1	183
Mar.	172	5	177	5,795	-15	192	1	191
Apr.	201	5	206	6,712	31	176	5	171
May	197	15	212	6,513	-6	218	0	218
Jun.	209	9	218	6,581	2	215	0	215
Jul.	203	16	219	6,099	-16	235	0	235
Aug.	197	8	205	6,609	16	189	1	188
Sep.	197	6	203	6,700	3	199	0	199
Oct.	202	7	209	6,764	2	207	0	207
Nov.	202	11	213	6,901	5	209	0	209
Dec.	203	21	224	7,072	6	219	10	209

See notes and sources at end of table

Section VII
Table 13a

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1987	204	3	207	7,956	2	205	1	204
Jan.	174	6	180	7,631	18	161	2	159
Feb.	194	3	197	7,141	-18	214	0	214
Mar.	187	6	193	7,031	-4	197	1	196
Apr.	202	3	205	7,183	5	199	0	199
May	216	2	218	8,078	29	189	0	189
Jun.	204	2	206	7,262	-27	233	0	233
Jul.	221	3	224	7,253	--	224	0	224
Aug.	208	3	211	6,981	-9	220	2	218
Sep.	204	2	206	6,506	-16	222	1	221
Oct.	219	4	223	7,097	19	203	0	203
Nov.	217	4	221	7,043	-2	223	2	221
Dec.	206	2	208	7,956	29	179	4	175
1988	206	3	209	6,051	-5	214	1	213
Jan.	185	3	188	7,572	-12	199	0	199
Feb.	178	3	181	6,086	-51	232	0	232
Mar.	211	2	213	6,639	18	195	0	195
Apr.	203	3	206	6,276	-12	218	0	218
May	229	4	233	6,853	19	214	3	211
Jun.	208	3	211	6,741	-4	215	0	215
Jul.	209	3	212	6,749	0	212	0	212
Aug.	206	3	209	6,893	5	205	1	204
Sep.	198	3	201	6,503	-13	214	7	207
Oct.	208	3	211	6,316	-6	216	2	214
Nov.	219	3	222	6,436	4	218	0	218
Dec.	217	3	220	6,051	-12	233	3	230
1989	206	3	209	6,380	1	209	4	205
Jan.	191	3	194	6,626	19	175	1	174
Feb.	190	2	192	6,383	-9	201	1	200
Mar.	209	4	213	6,118	-8	221	10	211
Apr.	196	3	199	6,079	-1	200	0	200
May	218	10	228	6,176	4	224	0	224
Jun.	211	4	215	6,200	1	214	0	214
Jul.	216	3	219	6,625	14	204	1	203
Aug.	200	4	204	6,012	-20	224	0	224
Sep.	224	3	227	6,818	27	200	0	200
Oct.	204	3	207	6,316	-16	223	2	221
Nov.	209	2	211	6,829	17	194	12	182
Dec.	205	1	206	6,380	-15	221	17	204

See notes and sources at end of table

Section VII
Table 13b

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand(b)
1990	178	8	186	6,165	-1	186	4	182
Jan.	187	1	188	6,386	--	188	8	180
Feb.	199	1	200	6,337	-2	202	0	202
Mar.	201	2	203	7,048	23	179	13	166
Apr.	178	1	179	6,299	-25	204	8	196
May	198	2	200	6,853	18	181	0	181
Jun.	175	2	177	6,969	4	173	3	170
Jul.	126	2	128	6,349	-20	148	1	147
Aug.	174	2	176	5,716	-20	196	7	189
Sep.	210	10	220	6,088	12	207	2	205
Oct.	168	20	188	6,183	3	184	5	179
Nov.	161	34	195	5,791	-13	208	0	208
Dec.	159	16	175	6,165	12	163	0	163
1991(p)								
Jan.	155	20	175	5,999	-5	181	0	181
Feb.	164	15	179	5,869	-5	183	2	181
Mar.	142	12	154	5,866	--	155	1	154
Apr.	151	13	164	5,714	-5	169	13	156
May	176	15	191	5,670	-1	192	1	191
Jun.	173	7	180	5,509	-5	185	0	185
Jul.	172	7	179	5,728	7	171	4	167
Aug.	170	14	184	5,286	-14	199	--	199
Sep.	173	7	180	5106	-6	186	--	186

(a) Data prior to 1965 are not available on a comparable basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1965-1975: U.S. Bureau of Mines, Annual Petroleum Statement
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1965(a)	298	37	335	10,361	–	335	1	334
1966	345	52	397	13,139	5	392	1	391
1967	448	74	522	13,174	3	519	1	518
1968	529	86	615	15,373	6	609	–	609
1969	594	111	705	19,517	11	694	–	694
1970	597	125	722	29,989	4	718	–	718
1971	601	150	751	20,747	-1	752	1	751
1972	638	162	800	19,346	-3	803	–	803
1973	679	176	855	22,945	10	845	3	842
1974	641	135	776	23,906	3	773	2	771
1975	691	105	796	25,158	3	793	2	791
1976	731	61	792	25,590	1	791	2	789
1977	788	53	841	28,263	8	833	2	831
1978	791	67	858	27,707	-1	859	1	858
1979	835	56	891	32,921	14	877	1	876
1980	811	49	860	35,723	8	852	1	851
1981	775	31	806	34,011	-5	810	1	809
1982	778	23	801	31,180	-8	809	5	804
1983	817	29	846	32,346	2	844	5	839
1984	919	48	967	35,118	8	960	7	953
Jan.	870	51	921	29,234	-100	1,021	10	1,011
Feb.	938	110	1,048	32,929	127	921	2	919
Mar.	893	38	931	33,917	32	899	1	898
Apr.	871	42	913	34,056	5	908	5	903
May	890	29	919	34,488	14	906	1	905
Jun.	916	36	952	36,089	53	898	6	892
Jul.	948	40	988	36,780	22	966	10	956
Aug.	973	77	1,050	38,526	56	994	2	992
Sep.	926	33	959	37,989	-18	978	1	977
Oct.	958	56	1,014	38,214	7	1,007	5	1,002
Nov.	920	22	942	38,401	6	935	11	924
Dec.	931	38	969	35,118	-106	1,075	24	1,051
1985	983	30	1,013	33,825	-4	1,017	12	1,005
Jan.	958	49	1,007	34,691	-14	1,021	3	1,018
Feb.	981	29	1,010	35,302	22	988	22	966
Mar.	1,003	30	1,033	36,865	50	982	6	976
Apr.	937	14	951	35,041	-61	1,012	5	1,007
May	915	24	939	35,924	28	911	5	906
Jun.	914	20	934	36,537	20	913	3	910
Jul.	954	43	997	36,037	-16	1,012	3	1,009
Aug.	966	9	975	34,681	-44	1,019	21	998
Sep.	989	34	1,023	35,187	17	1,006	4	1,002
Oct.	1,036	42	1,078	35,558	12	1,067	25	1,042
Nov.	1,090	32	1,122	36,408	28	1,094	28	1,066
Dec.	1,051	35	1,086	33,825	-83	1,170	18	1,152

See notes and sources at end of table

Section VII
Table 14a

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1986	1,097	48	1,145	42,677	24	1,121	16	1,105
Jan.	1,143	25	1,168	35,051	40	1,128	38	1,090
Feb.	1,175	33	1,208	37,829	99	1,108	15	1,093
Mar.	1,119	24	1,143	41,729	126	1,018	11	1,007
Apr.	963	39	1,002	38,831	-97	1,098	12	1,086
May	1,004	39	1,043	38,807	-1	1,044	14	1,030
Jun.	1,066	76	1,142	39,703	30	1,112	6	1,106
Jul.	1,084	106	1,190	42,481	90	1,101	10	1,091
Aug.	1,072	77	1,149	41,884	-19	1,168	4	1,164
Sep.	1,093	54	1,147	42,233	12	1,136	14	1,122
Oct.	1,112	31	1,143	43,853	52	1,091	25	1,066
Nov.	1,125	48	1,173	43,237	-21	1,193	22	1,171
Dec.	1,210	28	1,238	42,677	-18	1,256	20	1,236
1987	1,138	64	1,202	41,973	-2	1,204	23	1,181
Jan.	1,192	37	1,229	42,116	-18	1,247	45	1,202
Feb.	1,135	64	1,199	41,154	-34	1,233	20	1,213
Mar.	1,095	77	1,172	41,044	-4	1,176	7	1,169
Apr.	1,052	62	1,114	39,977	-36	1,150	4	1,146
May	1,035	65	1,100	39,277	-23	1,122	4	1,118
Jun.	1,048	64	1,112	38,677	-20	1,132	5	1,127
Jul.	1,126	70	1,196	39,479	26	1,169	4	1,165
Aug.	1,191	52	1,243	40,762	41	1,201	2	1,199
Sep.	1,190	81	1,271	43,684	97	1,173	34	1,139
Oct.	1,189	79	1,268	42,740	-30	1,299	35	1,264
Nov.	1,171	51	1,222	43,937	40	1,183	45	1,138
Dec.	1,233	65	1,298	41,973	-63	1,362	74	1,288
1988	1,164	87	1,251	37,723	-12	1,263	27	1,236
Jan.	1,231	82	1,313	37,976	-129	1,441	81	1,360
Feb.	1,205	68	1,273	36,738	-43	1,315	34	1,281
Mar.	1,242	95	1,337	39,527	90	1,247	52	1,195
Apr.	1,088	81	1,169	39,020	-17	1,186	13	1,173
May	1,059	108	1,167	39,210	6	1,161	4	1,157
Jun.	1,133	75	1,208	38,811	-13	1,221	15	1,206
Jul.	1,154	85	1,239	40,148	43	1,196	3	1,193
Aug.	1,138	100	1,238	39,746	-13	1,251	14	1,237
Sep.	1,177	59	1,236	40,060	10	1,225	9	1,216
Oct.	1,158	143	1,301	47,755	22	1,279	2	1,277
Nov.	1,118	76	1,194	39,668	-36	1,230	9	1,221
Dec.	1,259	72	1,331	37,723	-63	1,394	80	1,314

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

Year	Supply				Demand			
	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1989	1,197	103	1,300	34,471	-9	1,308	23	1,285
Jan.	1,312	98	1,410	37,787	2	1,408	74	1,334
Feb.	1,214	117	1,331	36,917	-31	1,362	20	1,342
Mar.	1,188	97	1,285	37,125	7	1,278	1	1,277
Apr.	1,074	125	1,199	38,101	33	1,166	16	1,150
May	1,031	110	1,141	39,243	37	1,104	1	1,103
Jun.	1,139	120	1,259	38,408	-28	1,287	1	1,286
Jul.	1,194	111	1,305	40,783	77	1,228	9	1,219
Aug.	1,237	86	1,323	42,271	48	1,275	15	1,260
Sep.	1,218	92	1,310	41,079	-40	1,350	34	1,316
Oct.	1,300	71	1,371	43,885	92	1,279	27	1,252
Nov.	1,305	89	1,394	44,398	18	1,376	39	1,337
Dec.	1,149	114	1,263	34,471	-320	1,583	42	1,541
1990	1,311	100	1,411	45,925	31	1,379	39	1,340
Jan.	1,340	161	1,501	36,820	76	1,426	22	1,404
Feb.	1,330	157	1,487	40,226	122	1,366	50	1,316
Mar.	1,256	118	1,374	42,364	69	1,306	17	1,289
Apr.	1,179	102	1,281	40,387	-66	1,346	11	1,335
May	1,194	117	1,311	40,074	-10	1,321	8	1,313
Jun.	1,214	123	1,337	40,357	9	1,327	7	1,320
Jul.	1,307	98	1,405	44,598	137	1,269	10	1,259
Aug.	1,250	81	1,331	42,686	-62	1,393	30	1,363
Sep.	1,339	72	1,411	43,761	36	1,374	45	1,329
Oct.	1,463	52	1,515	44,888	36	1,478	72	1,406
Nov.	1,445	59	1,504	44,705	-6	1,510	141	1,369
Dec.	1,411	66	1,477	45,925	39	1,438	60	1,378
1991(p)								
Jan.	1,353	47	1,400	44,492	-40	1,440	73	1,367
Feb.	1,384	29	1,413	42,088	-86	1,499	157	1,342
Mar.	1,157	52	1,209	38,710	-109	1,318	39	1,279
Apr.	1,135	61	1,196	37,982	-24	1,220	25	1,195
May	1,242	53	1,295	41,253	-30	1,324	64	1,260
Jun.	1,300	57	1,357	43,085	61	1,295	13	1,282
Jul.	1,255	60	1,315	41,350	-56	1,371	27	1,344
Aug.	1,316	57	1,373	42,427	35	1,339	11	1,328
Sep.	1,322	59	1,381	44,500	69	1,312	10	1,302

(a) Data prior to 1965 are not available on a comparable basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary

SOURCE: 1965-1975: U.S Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand(a)
1947	302	–	302	17,722	1	301	20	281
1948	333	–	333	23,941	17	316	9	307
1949	280	–	280	20,688	-8	288	7	281
1950	325	–	325	19,723	-3	328	5	323
1951	372	–	372	27,088	16	356	19	337
1952	351	–	351	26,529	-1	352	21	331
1953	337	–	337	28,684	4	333	19	314
1954	335	–	335	27,826	-2	337	13	324
1955	326	–	326	26,770	-3	329	9	320
1956	342	–	342	31,420	12	330	9	321
1957	303	–	303	29,200	-6	309	14	295
1958	305	–	305	26,040	-8	313	3	310
1959(b)	305	–	305	26,856	1	304	3	301
1960(c)	374	–	374	31,445	10	364	2	362
1961	391	8	399	32,433	3	396	1	395
1962	431	18	449	31,725	-2	451	1	450
1963	454	24	478	34,102	4	474	2	472
1964	463	31	494	36,165	6	488	–	488
1965(d)	259	–	259	24,080	-9	268	1	267
1966	279	1	280	25,004	2	278	1	277
1967(e)	274	–	274	25,366	–	274	–	274
1968	278	–	278	23,480	-5	283	2	281
1969	282	3	285	26,780	9	276	1	275
1970	262	4	266	27,848	3	263	–	263
1971	240	1	241	24,438	-9	250	1	249
1972	219	1	220	19,111	-16	236	–	236
1973	220	2	222	21,022	6	216	–	216
1974	156	5	161	15,269	-15	176	–	176
1975	152	3	155	15,571	-4	159	–	159
1976	152	9	161	12,514	-8	169	–	169
1977	171	19	190	18,056	15	175	–	175
1978	154	11	165	14,330	-10	175	–	175
1979	183	9	192	15,824	4	189	–	189
1980	137	10	147	11,570	-12	159	–	159
1981	119	7	126	11,042	-1	127	–	127
1982	115	13	128	10,420	-2	130	1	129
1983	110	11	121	7,861	-8	128	1	127
1984	114	12	126	11,893	11	115	–	115

See notes and sources at end of table

Total United States Supply and Demand for Kerosine (Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand(a)
1985	94	8	102	7,502	-12	114	--	114
Jan.	100	10	110	7,905	-129	239	--	239
Feb.	135	12	147	7,124	-28	175	--	175
Mar.	97	4	101	8,095	31	70	--	70
Apr.	69	0	69	7,926	-6	74	--	74
May	43	2	45	7,326	-19	64	--	64
Jun.	59	5	64	6,794	-18	81	--	81
Jul.	77	1	78	7,596	26	52	--	52
Aug.	91	9	100	7,951	11	89	--	89
Sep.	102	0	102	8,701	25	76	--	76
Oct.	117	11	128	9,648	31	97	--	97
Nov.	115	16	131	10,489	28	103	1	102
Dec.	131	23	154	7,502	-96	250	--	250
1986	89	13	102	8,379	2	100	2	98
Jan.	135	29	164	7,272	-7	171	1	170
Feb.	120	1	121	6,735	-19	140	--	140
Mar.	96	11	107	6,179	-18	125	--	125
Apr.	76	0	76	6,837	22	55	1	54
May	47	2	49	6,258	-19	68	0	68
Jun.	45	0	45	6,652	13	31	1	30
Jul.	62	7	69	6,881	7	62	0	62
Aug.	73	26	99	6,859	-1	99	0	99
Sep.	91	16	107	8,344	50	58	1	57
Oct.	91	14	105	8,277	-2	108	8	100
Nov.	107	19	126	8,502	8	118	0	118
Dec.	131	30	161	8,379	-4	165	8	157
1987	79	17	96	8,447	--	96	1	95
Jan.	128	33	161	8,515	4	157	0	157
Feb.	79	36	115	7,578	-33	148	0	148
Mar.	61	9	70	6,523	-34	105	0	105
Apr.	46	9	55	6,851	11	43	0	43
May	38	3	41	6,617	-8	48	0	48
Jun.	38	4	42	6,089	-18	60	0	60
Jul.	53	12	65	6,512	14	51	0	51
Aug.	66	18	84	7,055	18	66	1	65
Sep.	90	13	103	7,989	31	72	0	72
Oct.	118	30	148	8,719	24	125	0	125
Nov.	117	12	129	9,270	18	111	1	110
Dec.	107	29	136	8,447	-27	163	10	153

See notes and sources at end of table

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand(a)
1988	79	16	95	7,284	-3	97	1	96
Jan.	104	33	137	7,193	-40	177	0	177
Feb.	118	20	138	6,963	-8	145	4	141
Mar.	68	14	82	6,363	-19	102	1	101
Apr.	50	8	58	6,033	-11	68	0	68
May	48	2	50	5,471	-18	68	0	68
Jun.	55	9	64	5,970	17	47	0	47
Jul.	64	0	64	6,211	8	56	0	56
Aug.	81	8	89	7,168	31	57	0	57
Sep.	80	13	93	7,476	10	1	1	81
Oct.	80	28	108	8,030	18	89	2	87
Nov.	99	23	122	8,138	4	2	2	117
Dec.	100	29	129	7,284	-28	156	2	154
1989	74	7	81	5,139	-6	86	2	84
Jan.	110	34	144	7,396	4	140	1	139
Feb.	70	5	75	5,909	-53	128	0	128
Mar.	76	3	79	5,747	-5	84	0	84
Apr.	67	2	69	5,828	3	65	0	65
Jun.	70	1	71	5,840	5	65	0	65
Jul.	55	0	55	6,045	7	49	0	49
Aug.	56	0	56	6,513	15	41	0	41
Sep.	81	1	82	7,565	36	46	2	44
Oct.	74	13	87	7,524	-2	89	0	89
Nov.	94	16	110	7,509	--	110	8	102
Dec.	86	6	92	5,139	-77	169	14	155
1990	45	5	50	5,576	1	48	5	43
Jan.	92	24	116	6,035	29	86	0	86
Feb.	64	6	70	5,315	-26	96	1	95
Mar.	38	1	39	5,006	-10	50	2	48
Apr.	41	6	47	5,006	0	47	1	46
May	21	0	21	5,185	6	16	0	16
Jun.	-4	8	4	4,926	-9	13	1	12
Jul.	43	1	44	5,756	27	16	0	16
Aug.	32	1	33	5,547	-7	40	0	40
Sep.	53	1	54	6,210	22	31	0	31
Oct.	49	1	50	6,388	6	44	26	18
Nov.	55	2	57	6,429	1	55	32	23
Dec.	52	5	57	5,576	-28	85	2	83

See notes and sources at end of table

Section VII
Table 15c

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1991(p)								
Jan.	79	9	88	5,455	-15	102	1	101
Feb.	62	2	64	4,984	-17	80	24	56
Mar.	22	1	23	4,233	-24	47	1	46
Apr.	35	4	39	4,265	1	39	1	38
May	44	5	49	4,241	-11	60	7	53
Jun.	25	6	31	4,676	15	17	1	16
Jul.	24	3	27	5,059	12	15	1	14
Aug.	14	1	15	4,936	-4	19	1	18
Sep.	28	1	29	5,606	22	6	1	5

(a) Totals may not add due to independent rounding.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) These figures and those through 1964 include commercial jet fuel.
(d) These figures and those for subsequent years exclude kerosine-type jet fuel.
(e) Beginning with 1967 production at refineries and at plants are combined in one total.
(p) Preliminary

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Section VII
Table 16

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1947	413	--	413	4,295	-2	415	17	398
1948	464	--	464	6,172	3	461	14	447
1949	494	--	494	7,358	2	491	15	476
1950	578	--	578	8,012	2	576	7	569
1951	651	--	651	8,854	2	649	10	639
1952	695	--	695	8,445	-1	696	11	685
1953	745	--	745	11,220	8	737	11	726
1954	785	--	785	14,979	11	774	12	762
1955	890	--	890	14,596	-1	891	12	879
1956	942	--	942	21,952	20	922	12	910
1957	954	--	954	23,480	4	950	13	937
1958	965	--	965	24,959	8	957	8	949
1959(b)	1,067	--	1,067	27,407	7	1,060	5	1,055
1960	1,141	5	1,146	32,554	14	1,132	8	1,124
1961	1,207	5	1,212	43,365	29	1,183	10	1,173
1962	1,232	6	1,238	36,154	-20	1,258	11	1,247
1963	1,359	7	1,366	37,633	4	1,362	12	1,350
1964	1,446	11	1,457	39,371	5	1,452	15	1,437
1965	1,502	21	1,523	39,542	--	1,523	22	1,501
1966	1,575	29	1,604	43,759	12	1,592	24	1,568
1967	1,715	27	1,742	69,947	74	1,668	25	1,643
1968	1,826	32	1,858	81,086	32	1,826	29	1,797
1969	1,928	35	1,963	65,306	-45	2,008	35	1,973
1970	2,005	52	2,057	74,089	25	2,032	27	2,005
1971	2,050	106	2,156	100,889	73	2,083	26	2,057
1972	2,100	174	2,274	91,792	-25	2,299	31	2,268
1973	2,113	239	2,352	106,476	41	2,311	27	2,284
1974	2,026	211	2,237	120,092	37	2,200	25	2,175
1975	1,944	185	2,129	132,653	34	2,095	26	2,069
1976	1,944	197	2,141	124,518	-22	2,163	25	2,138
1977	1,970	203	2,173	144,902	56	2,117	18	2,099
1978	1,921	139	2,060	140,052	-42	2,101	20	2,081
1979	1,924	230	2,154	125,289	-40	2,187	15	2,172
1980	1,897	216	2,113	137,551	34	2,079	21	2,058
1981	1,905	254	2,159	150,170	11 (c)	2,148	42	2,106
1982	1,809	247	2,056	105,077	-124	2,180	65	2,115
1983	1,875	205	2,080	116,532	470	1,610	73	1,537
1984	1,989	241	2,230	108,446	-22	1,753	51	1,702

See notes and sources at end of table

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1985	1,986	235	2,221	81,707	-73	1,785	64	1,721
Jan.	1,948	284	2,232	96,294	-424	2,127	72	2,055
Feb.	1,967	253	2,220	86,644	-309	2,005	74	1,931
Mar.	1,956	269	2,225	86,001	21	1,752	52	1,700
Apr.	1,976	172	2,148	90,221	141	1,538	80	1,458
May	1,995	221	2,216	96,365	198	1,562	40	1,522
Jun.	2,016	250	2,266	101,922	185	1,617	53	1,564
Jul.	2,001	190	2,191	105,910	129	1,607	70	1,537
Aug.	2,000	182	2,182	108,896	96	1,594	82	1,512
Sep.	1,954	188	2,142	106,667	-74	1,691	29	1,662
Oct.	1,950	271	2,221	97,102	-309	1,970	47	1,923
Nov.	2,001	220	2,221	91,816	-176	1,802	93	1,709
Dec.	2,063	322	2,385	81,707	-326	2,165	77	2,088
1986	1,963	265	2,228	109,532	76	1,674	45	1,629
Jan.	2,128	303	2,431	78,770	-95	1,995	47	1,948
Feb.	2,094	224	2,318	76,170	-93	1,914	80	1,834
Mar.	1,965	220	2,185	78,231	66	1,689	51	1,638
Apr.	1,904	156	2,060	84,220	200	1,419	36	1,383
May	1,962	221	2,183	95,798	373	1,363	43	1,320
Jun.	1,919	302	2,221	111,458	522	1,296	25	1,271
Jul.	1,961	315	2,276	126,110	473	1,435	53	1,382
Aug.	1,889	281	2,170	134,938	285	1,458	56	1,402
Sep.	1,901	314	2,215	138,796	129	1,610	29	1,581
Oct.	1,888	276	2,164	131,785	-226	1,890	26	1,864
Nov.	1,985	322	2,307	122,639	-305	2,016	58	1,958
Dec.	1,976	238	2,214	109,532	-423	2,007	35	1,972
1987	2,040	201	2,241	104,119	-15	1,789	40	1,749
Jan.	2,014	203	2,217	94,979	-502	2,143	46	2,097
Feb.	2,035	215	2,250	88,728	-188	1,948	40	1,908
Mar.	2,037	145	2,182	88,569	-5	1,755	54	1,701
Apr.	2,049	170	2,219	92,705	138	1,658	39	1,619
May	2,023	147	2,170	101,897	297	1,444	36	1,408
Jun.	2,035	131	2,166	107,974	203	1,559	22	1,537
Jul.	2,070	201	2,271	112,761	154	1,693	32	1,661
Aug.	2,020	199	2,219	120,211	240	1,548	35	1,513
Sep.	2,034	289	2,323	122,768	85	1,812	58	1,754
Oct.	2,040	241	2,281	120,373	-77	1,889	23	1,866
Nov.	2,067	243	2,310	116,176	-140	1,927	37	1,890
Dec.	2,051	227	2,278	104,119	-389	2,106	59	2,047

See notes and sources at end of table

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1988	2,120	221	2,341	103,988	-587	1,831	51	1,780
Jan.	2,034	237	2,271	85,937	-587	2,291	47	2,244
Feb.	2,067	270	2,337	76,632	-321	2,101	49	2,052
Mar.	2,124	176	2,300	75,802	-27	1,834	38	1,796
Apr.	2,105	216	2,321	87,564	392	1,478	45	1,433
May	2,119	174	2,293	98,374	349	1,480	39	1,441
Jun.	2,119	152	2,271	108,996	354	1,476	40	1,436
Jul.	2,154	234	2,388	121,221	394	1,560	37	1,523
Aug.	2,161	261	2,422	130,287	292	1,657	52	1,605
Sep.	2,146	200	2,346	131,040	25	1,869	45	1,824
Oct.	2,172	227	2,399	128,859	-70	1,965	58	1,907
Nov.	2,134	279	2,413	121,239	-254	2,021	75	1,946
Dec.	2,103	225	2,328	103,988	-556	2,236	87	2,149
1989	2,100	189	2,289	88,806	-43	1,833	41	1,792
Jan.	2,190	250	2,440	92,845	-359	2,186	29	2,157
Feb.	2,101	275	2,376	83,664	-328	2,182	38	2,144
Mar.	2,214	154	2,368	81,203	-79	1,984	49	1,935
Apr.	2,270	131	2,401	90,926	324	1,666	30	1,636
May	2,263	119	2,382	104,999	454	1,523	57	1,466
Jun.	2,146	157	2,303	113,302	277	1,581	48	1,533
Jul.	2,174	202	2,376	126,828	436	1,517	55	1,462
Aug.	2,107	213	2,320	136,625	316	1,570	43	1,527
Sep.	2,048	186	2,234	134,726	-63	1,795	31	1,764
Oct.	1,986	179	2,165	124,802	-320	1,925	33	1,892
Nov.	1,940	186	2,126	112,802	-400	1,905	35	1,870
Dec.	1,756	215	1,971	88,806	-774	2,155	40	2,115
1990	2,098	197	2,295	104,038	42	1,746	41	1,705
Jan.	1,981	280	2,261	85,385	-110	1,789	46	1,743
Feb.	2,054	246	2,300	84,921	-17	1,798	46	1,752
Mar.	2,067	159	2,226	87,398	80	1,772	45	1,727
Apr.	2,050	155	2,205	89,994	87	1,743	27	1,716
May	2,070	217	2,287	99,075	293	1,611	37	1,574
Jun.	2,028	205	2,233	113,609	484	1,368	29	1,339
Jul.	2,068	160	2,228	122,875	299	1,531	38	1,493
Aug.	2,143	267	2,410	133,699	349	1,650	43	1,607
Sep.	2,103	153	2,256	133,589	-4	1,785	42	1,743
Oct.	2,094	169	2,263	125,421	-263	1,999	39	1,960
Nov.	2,042	157	2,199	116,139	-309	1,916	41	1,875
Dec.	1,995	194	2,189	104,038	-390	1,986	60	1,926

See notes and sources at end of table

Section VII
Table 16c

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1991(p)								
Jan.	2,022	140	2,162	82,130	-709	2,325	56	2,269
Feb.	2,145	130	2,275	74,960	-256	2,055	60	1,995
Mar.	2,203	90	2,293	79,101	134	1,757	58	1,699
Apr.	2,203	159	2,362	90,300	373	1,603	32	1,571
May	2,249	132	2,381	104,332	453	1,542	46	1,496
Jun.	2,220	154	2,374	115,576	375	1,588	34	1,554
Jul.	2,185	151	2,336	120,295	152	1,770	25	1,745
Aug.	2,175	142	2,317	125,668	89	1,794	41	1,753
Sep.	2,104	146	2,250	124,270	-47	1,849	31	1,818

(a) Prior to 1960 figures included with gasoline.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) The U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 146,145 thousand barrels. This figure was used to compute the 1981 stock change.
(d) Total demand excludes volume used as refinery inputs.
(e) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Section VII
Table 17

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1947	141	–	141	8,624	2	139	41	98
1948	140	–	140	9,843	5	135	37	98
1949	124	–	124	9,219	-2	126	35	91
1950	141	–	141	7,849	-4	145	39	106
1951	168	–	168	9,617	4	164	48	116
1952	151	–	151	11,021	3	148	44	104
1953	144	–	144	10,070	-2	146	35	111
1954	145	–	145	9,702	-1	146	41	105
1955	153	–	153	8,763	-3	156	39	117
1956	161	–	161	10,183	3	158	38	120
1957	152	–	152	10,864	1	151	38	113
1958	140	–	140	9,687	-3	143	35	108
1959(a)	154	–	154	8,950	-2	156	38	118
1960	162	–	162	9,874	2	160	43	117
1961	162	–	162	12,943	2	160	47	113
1962	168	–	168	13,130	–	168	48	120
1963	173	–	173	14,321	3	170	50	120
1964	174	–	174	14,062	-1	175	50	125
1965	172	–	172	13,304	-2	174	45	129
1966	179	–	179	12,682	-2	181	47	134
1967	178	–	178	14,774	6	172	51	121
1968	180	–	180	14,023	-2	182	49	133
1969	178	1	179	14,088	–	179	45	134
1970	181	1	182	14,712	2	180	44	136
1971	179	–	179	15,049	1	178	43	135
1972	179	1	180	13,271	-5	185	41	144
1973	188	6	194	12,186	-3	197	35	162
1974	194	5	199	16,060	11	188	33	155
1975	154	3	157	14,337	-5	162	25	137
1976	169	4	173	12,274	-5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	-	198	27	171
1979	194	9	203	12,549	1	202	23	179
1980	178	7	185	13,483	3	183	23	160
1981	166	8	174	14,304	2	172	19	153
1982	141	10	151	12,531	-5	156	16	140
1983	147	11	158	12,080	-3	162	16	146
1984	159	13	172	12,724	2	171	15	156

See notes and sources at end of table

Section VII
Table 17a

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1985	145	13	158	11,827	-2	160	15	145
Jan.	145	12	157	12,931	7	150	14	136
Feb.	149	18	167	12,700	-8	175	12	163
Mar.	147	11	158	12,462	-8	167	16	151
Apr.	149	9	158	11,937	-18	175	13	162
May	153	20	173	11,938	2	173	14	159
Jun.	156	14	170	12,203	9	160	9	151
Jul.	149	10	159	12,469	9	151	13	138
Aug.	152	16	168	12,220	-8	177	17	160
Sep.	154	6	160	12,456	8	153	15	138
Oct.	150	15	165	12,165	-9	174	20	154
Nov.	114	12	126	11,556	-20	146	21	125
Dec.	126	9	135	11,827	9	126	17	109
1986	159	12	171	14,164	6	165	23	142
Jan.	161	16	177	14,431	84	93	19	74
Feb.	168	11	179	14,916	17	161	20	141
Mar.	145	12	157	14,029	-29	186	21	165
Apr.	162	19	181	14,060	1	180	21	159
May	173	14	187	13,982	-3	190	21	169
Jun.	160	9	169	13,586	-13	183	17	166
Jul.	145	14	159	13,255	-11	169	27	142
Aug.	161	5	166	13,279	1	164	23	141
Sep.	163	10	173	13,015	-9	182	21	161
Oct.	154	14	168	12,511	-16	184	30	154
Nov.	167	14	181	13,282	26	155	25	130
Dec.	155	4	159	14,164	28	151	25	126
1987	167	14	181	13,271	-2	184	23	161
Jan.	163	13	176	14,249	3	173	17	156
Feb.	158	16	174	13,691	-20	193	25	168
Mar.	161	12	173	12,953	-24	197	24	173
Apr.	172	14	186	12,455	-17	202	22	180
May	159	9	168	12,122	-11	179	25	154
Jun.	176	17	193	11,675	-15	208	24	184
Jul.	171	23	194	11,705	1	193	28	165
Aug.	168	13	181	11,900	6	175	22	153
Sep.	171	16	187	12,169	9	178	21	157
Oct.	173	12	185	12,620	15	171	21	150
Nov.	173	14	187	13,648	34	152	22	130
Dec.	156	13	169	13,271	-12	182	22	160

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1988	170	11	181	13,316	-	181	26	155
Jan.	164	13	177	14,060	25	151	19	132
Feb.	174	14	188	13,905	-5	193	23	170
Mar.	188	13	201	14,040	4	196	26	170
Apr.	178	12	190	14,095	2	188	34	154
May	180	13	193	13,879	-7	200	25	175
Jun.	182	7	189	13,934	2	187	34	153
Jul.	168	10	178	14,093	5	174	26	148
Aug.	170	7	177	13,671	-14	191	26	165
Sep.	144	11	155	12,541	-38	192	30	162
Oct.	168	11	179	12,783	8	171	18	153
Nov.	165	8	173	12,512	-9	183	23	160
Dec.	161	10	171	13,316	26	146	31	115
1989	168	11	179	13,826	1	178	19	159
Jan.	180	12	192	14,412	35	157	14	143
Feb.	171	14	185	14,408	–	184	18	166
Mar.	177	13	190	13,968	-14	205	17	188
Apr.	164	7	171	13,738	-8	178	18	160
May	180	15	195	13,222	-17	212	16	196
Jun.	175	13	188	13,185	-1	189	16	173
Jul.	185	11	196	14,385	39	158	23	135
Aug.	172	12	184	14,480	3	180	19	161
Sep.	160	7	167	14,261	-7	173	17	156
Oct.	142	9	151	13,268	-32	183	17	166
Nov.	168	10	178	13,346	3	176	29	147
Dec.	146	9	155	13,826	15	139	20	119
1990	168	12	180	12,373	-4	184	20	164
Jan.	157	12	169	13,585	-8	176	16	160
Feb.	166	14	180	12,992	-21	201	15	186
Mar.	162	11	173	12,266	-23	197	18	179
Apr.	173	7	180	12,361	3	177	30	147
May	165	27	192	12,321	-1	193	18	175
Jun.	155	7	162	12,351	1	161	21	140
Jul.	175	12	187	12,436	3	184	14	170
Aug.	173	10	183	11,452	-32	215	21	194
Sep.	179	11	190	11,239	-7	197	21	176
Oct.	161	11	172	10,347	-29	201	26	175
Nov.	185	11	196	11,404	35	161	18	143
Dec.	161	8	169	12,373	31	138	18	120

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1991(p)								
Jan.	167	7	174	12,468	3	171	16	155
Feb.	160	2	162	13,302	30	132	15	117
Mar.	162	5	167	13,711	13	154	17	137
Apr.	152	6	158	13,408	-10	168	17	151
May	160	10	170	13,190	-7	177	21	156
Jun.	165	6	171	13,169	-1	172	19	153
Jul.	154	12	166	12,625	-18	183	17	166
Aug.	152	7	159	12,673	2	157	19	138
Sep.	165	4	169	12,737	2	167	17	150

(a) These figures and those for subsequent years are on a 50 state basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Section VII
Table 18

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1984

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	526	67	593	20,378	-3	596	5	588
Propane (a)	807	67	874	57,803	7	867	30	833
Normal Butane (a)	265	37	302	13,681	-18	320	10	143
Isobutane (a)	99	24	123	8,987	-5	128	3	7
Total LPG's (a)	1,697	195	1,892	100,849	-19	1,911	48	1,572
Pentanes Plus (a)	292	46	338	7,597	-3	341	3	129
Total NGL's & LRG's (a)	1,989	241	2,230	108,446	-22	2,252	51	1,702
Petrochemicals	351	33	384	3,347	0	384	21	364
Lubricants	159	13	172	12,724	2	170	15	156
Asphalt & Road Oil	386	18	404	17,183	-4	408	1	408
Petroleum Coke	439	0	439	4,839	-2	441	193	247
Miscellaneous Products(c)	688	66	754	5,751	0	754	4	749
Total Other Oils (a)	4,012	371	4,383	152,290	-26	4,409	285	3,626

1985

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	507	48	555	11,765	-24	580	3	575
Propane (a)	816	67	883	39,474	-50	934	48	883
Normal Butane (a)	253	43	296	14,157	4	292	9	117
Isobutane (a)	126	28	154	7,313	-5	160	2	24
Total LPG's (a)	1,704	187	1,891	72,709	-75	1,965	62	1,599
Pentane Plus (a)	282	49	333	8,189	2	330	2	123
Total NGL's & LRG's (a)	1,986	235	2,221	80,898	-73	2,294	64	1,721
Petrochemicals	356	23	379	3,116	-1	380	19	361
Lubricants	145	13	158	11,657	-2	160	15	145
Asphalt & Road Oil	401	35	436	21,207	11	425	0	425
Petroleum Coke	455	0	455	6,159	4	451	187	264
Miscellaneous Products(c)	718	37	755	8,620	2	753	3	750
Total Other Oils (a)	4,061	343	4,404	131,657	-59	4,463	288	3,666

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1986

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	493	19	512	15,421	10	502	5	495
Propane (a)	817	110	927	62,852	64	863	28	831
Normal Butane (a)	253	68	321	15,859	2	319	7	146
Isobutane (a)	133	45	178	8,526	3	175	2	41
Total LPG's (a)	1,694	242	1,936	10,265	80	1,856	42	1,512
Pentanes Plus (a)	269	23	292	6,874	-4	296	2	116
Total NGL's & LRG's (a)	1,963	265	2,228	10,953	76	2,152	45	1,629
Petrochemicals	404	85	489	3,986	3	486	22	465
Lubricants	159	12	171	14,164	6	165	23	142
Asphalt & Road Oil	410	29	439	17,707	-10	449	1	448
Petroleum Coke	506	1	507	6,030	--	506	238	268
Miscellaneous Products(c)	776	20	796	7,720	5	791	3	789
Total Other Oils (a)	4,218	412	4,630	15,913	80	4,549	332	3,741

1987

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane(a)	509	3	512	22,261	19	493	4	486
Propane(a)	828	88	916	47,792	-41	957	24	924
Normal Butane(a)	260	60	320	16,542	2	318	8	151
Isobutane(a)	152	40	192	10,499	5	187	2	50
Total LPG's(a)	1,749	190	1,939	97,094	-15	1,954	38	1,612
Pentanes Plus(a)	291	11	302	7,025	--	302	2	138
Total NGL's & LRG's(a)	2,040	201	2,241	104,119	-15	2,256	40	1,749
Petrochemicals	384	79	463	3,938	-1	463	20	443
Lubricants	167	14	181	13,271	-2	184	23	161
Asphalt & Road Oil	434	36	470	18,799	3	468	1	467
Petroleum Coke	512	1	513	6,750	2	512	213	299
Miscellaneous Products(c)	783	23	806	8,278	2	805	5	800
Total Other Oils(a)	4,320	354	4,674	155,155	-11	4,688	302	3,919

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1988

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	511	3	514	17,872	-12	526	4	520
Propane (a)	863	106	969	50,427	7	962	31	923
Normal Butane (a)	285	65	350	21,009	12	338	11	163
Isobutane (a)	157	35	192	8,031	-7	199	2	50
Total LPG's (a)	1,818	209	2,027	97,339	1	2,026	49	1,656
Pentanes Plus (a)	302	11	313	6,649	-1	314	2	124
Total NGL's & LRG's (a)	2,120	221	2,341	103,988	-	2,341	51	1,780
Petrochemicals	335	147	482	3,704	-1	483	23	459
Lubricants	170	11	181	13,316	0	181	26	155
Asphalt & Road Oil	443	31	474	20,817	6	468	1	468
Petroleum Coke	544	2	546	7,790	3	543	231	312
Miscellaneous Products(c)	821	11	832	7,470	-2	834	10	825
Total Other Oils (a)	4,433	423	4,856	157,085	6	4850	342	3,999

1989

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	478	8	486	23,828	16	470	0	465
Propane (a)	863	111	974	31,528	-52	1,026	24	990
Normal Butane (a)	288	48	336	16,804	-12	348	11	188
Isobutane (a)	162	14	176	8,070	-	176	0	25
Total LPG's (a)	1,791	181	1,972	80,230	-47	2,019	35	1,668
Pentanes Plus (a)	309	8	317	8,576	5	312	6	122
Total NGL's & LRG's (a)	2,100	188	2,288	88,806	-42	2,330	41	1,790
Petrochemicals	342	144	486	3,961	1	485	26	460
Lubricants	168	11	179	13,826	1	178	19	159
Asphalt & Road Oil	424	31	455	20,560	-1	456	3	453
Petroleum Coke	542	1	543	8,600	2	541	233	307
Miscellaneous Products(c)	827	12	839	6,447	-2	841	16	826
Total Other Oils (a)	4,403	387	4,790	142,200	-41	4,831	338	3,995

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

	1990							
	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	493	7	500	19,874	-11	510	0	510
Propane (a)	878	115	993	48,915	48	945	28	917
Normal Butane (a)	216	50	266	19,321	7	259	12	110
Isobutane (a)	162	16	178	9,796	5	174	0	19
Total LPG's (a)	1,749	188	1,937	97,906	48	1,888	40	1,556
Pentanes Plus (a)	309	9	318	6,130	-7	325	2	148
Total NGL's & LRG's (a)	2,058	197	2,255	104,036	42	2,213	41	1,705
Petrochemicals	405	155	560	3,514	-1	563	26	537
Lubricants	168	12	180	12,373	-4	184	20	164
Asphalt & Road Oil	449	32	481	18,732	-5	486	3	483
Petroleum Coke	552	2	554	7,181	-4	559	220	339
Miscellaneous Products(c)	810	14	824	6,305	0	824	14	810
Total Other Oils (a)	4,442	412	4,854	152,143	28	4,829	324	4,038

(a) The discrepancy between total demand minus exports equals domestic demand is accounted for by refinery inputs, which are not shown here.
(b) Totals may not add due to independent rounding.
(c) Miscellaneous Products include special naphtha, waxes, still gas and miscellaneous products.

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual

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Table 19

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High Date	Year's High Stocks(a)	Year's Low Date	Year's Low Stocks(a)	Strategic Petroleum Reserve Stocks
1960	239,800	Apr. 30	266,178	Sept. 30	231,986	
1961	244,644	May 31	261,440	Feb. 28	232,063	
1962	252,011	Nov. 30	256,284	Feb. 28	240,166	
1963	237,361	May 31	255,666	Dec. 31	237,361	
1964	230,057	May 31	257,322	Dec. 31	230,057	
1965	220,289	May 31	256,071	Dec. 31	220,289	
1966	238,391	June 30	253,388	Jan. 31	220,302	
1967	248,970	May 31	268,845	Dec. 31	248,970	
1968	272,193	Dec. 31	272,193	Jan. 31	244,946	
1969	265,227	June 30	284,544	Sept. 30	262,528	
1970	276,367	May 31	284,824	Aug. 31	254,144	
1971	259,648	May 31	284,320	Dec. 31	259,648	
1972	246,395	May 31	279,490	Dec. 31	246,395	
1973	242,478	May 31	257,867	Feb. 28	235,362	
1974	265,020	Nov. 30	271,144	Jan. 31	233,035	
1975	271,354	Apr. 30	281,908	Aug. 31	256,616	
1976	285,471	Nov. 30	298,836	Aug. 31	277,272	
1977(a)	339,857	Nov. 30	345,197	Feb. 28	291,462	7,826
1978	309,421	Mar. 31	345,482	Dec. 31	309,421	66,860
1979	339,074	Nov. 30	347,415	Jan. 31	302,059	91,191
1980	358,166	Aug. 31	367,223	Jan. 31	357,500	107,800
1981	363,464	Apr. 30	397,497	Sept. 30	355,982	230,341
1982	349,730	Feb. 28	371,762	Sept. 30	340,675	293,827
1983	343,850	Feb. 28	363,265	July 31	335,131	379,089
1984	345,376	May 31	358,995	Sept. 30	325,207	450,505
1985	320,892	May 31	356,630	Oct. 31	313,687	493,316
Jan.	336,127					457,409
Feb.	321,509					460,138
Mar.	329,624					461,617
Apr.	341,908					464,940
May	356,630					471,930
Jun.	344,058					476,571
Jul.	326,977					483,538
Aug.	318,474					487,126
Sep.	317,365					489,255
Oct.	313,687					489,881
Nov.	320,943					491,464
Dec.	320,892					493,316

See notes and sources at end of table

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1986	331,224	Oct. 31	343,892	June 30	326,654	511,565
Jan.	331,677					494,392
Feb.	331,724					495,381
Mar.	340,900					496,892
Apr.	337,791					498,781
May	328,640					499,877
Jun.	326,654					501,787
Jul.	341,798					503,400
Aug.	332,713					504,974
Sep.	337,799					506,385
Oct.	343,892					507,514
Nov.	339,084					509,471
Dec.	331,224					511,565
1987	348,995	Nov. 30	363,637	July 31	323,750	540,648
Jan.	333,029					514,910
Feb.	331,858					516,709
Mar.	332,451					519,987
Apr.	328,957					521,983
May	324,703					525,129
Jun.	327,598					527,187
Jul.	323,750					530,012
Aug.	332,468					531,978
Sep.	337,164					533,890
Oct.	355,894					535,652
Nov.	363,637					538,547
Dec.	348,995					540,648
1988	330,359					559,515
Jan.	345,583					542,720
Feb.	348,021					544,146
Mar.	354,003					544,938
Apr.	357,377					547,258
May	359,665	May 31	359,665			547,949
Jun.	358,858					550,056
Jul.	349,490					551,344
Aug.	333,564					552,145
Sep.	328,560			Sep. 30	328,560	554,659
Oct.	339,588					556,001
Nov.	337,014					558,673
Dec.	330,359					559,515

See notes and sources at end of table

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1989	341,291					579,857
Jan.	333,912					561,519
Feb.	332,847					563,888
Mar.	326,570			Mar. 30	326,570	566,224
Apr.	339,596					568,009
May	345,614					570,403
Jun.	331,262					571,724
Jul.	333,194					574,388
Aug.	340,979					575,373
Sep.	334,888					577,131
Oct.	336,010					578,271
Nov.	351,006	Nov. 30	351,006			579,490
Dec.	341,291					579,857
1990	322,695					585,692
Jan.	349,007					580,596
Feb.	339,429					580,924
Mar.	370,845					582,279
Apr.	370,472					583.418
May	382,540					586,187
Jun.	384,223	Jun. 30	384,223			586,678
Jul.	379,461					586,678
Aug.	369,500					589,606
Sep.	342,605					589,611
Oct.	346,311					589,359
Nov.	338,727					586,017
Dec.	322,695	Dec. 31	322,695			585,692
1991(p)						
Jan.	320,078					585,692
Feb.	331,193					581,564
Mar.	336,772					568,482
Apr.	338,716					568,482
May	358,501					568,482
Jun.	347,588					568,488
Jul.	342,529					568,502
Aug.	345,342					568,503
Sep.	341,055					568,503

(a) Stocks were first reported for the Strategic Petroleum Reserve (SPR) in October, 1977. SPR stocks are included neither in the December 31 levels nor the year's highs and lows but are reported separately in the last column.

(p) Preliminary.

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual and Monthlies.

Twenty Leading Companies Motor Gasoline Sales(a) (Millions of Gallons)

1970		1980		1983		1984	
Company	**Sales**	**Company**	**Sales**	**Company**	**Sales**	**Company**	**Sales**
Texaco	7,300.0	Exxon	7,930.6	Standard of Indiana	7,419.4	Chevron(j)	10,396.1
Shell	7,050.0	Shell	7,913.8	Shell	7,180.3	Standard of Indiana	7,714.5
Standard of New Jersey	6,656.0	Standard of Indiana	7,790.6	Exxon	7,066.9	Texaco(k)	7,693.7
Standard of Indiana	6,557.0	Mobil	6,329.2	Texaco	5,937.2	Shell	7,252.6
Gulf	6,398.0	Texaco	6,262.4	Mobil	5,768.3	Exxon	7,112.7
Mobil	5,921.0	Standard of California	6,073.8	Gulf	5,427.5	Mobil	5,786.5
Atlantic Richfield	4,979.0	Gulf	5,670.9	Standard of California	5,167.5	Atlantic Richfield	5,085.6
Standard of California	4,161.0	Atlantic Richfield	4,067.5	Atlantic Richfield	4,857.7	Unocal	3,687.0
Sun	3,721.0	Union	3,681.9	Unocal(g)	3,584.6	Phillips	2,902.5
Phillips	3,559.0	Phillips	2,978.4	Phillips	2,730.9	U.S. Steel	2,733.3
Union	2,950.0	Sun	2,888.4	Sun	2,669.9	Sun	2,654.8
Standard of Ohio(b)	2,569.0	Marathon	2,278.6	U.S. Steel	2,295.3	Southland	2,422.8
Continental(c)	2,107.0	Standard of Ohio-BP	2,227.6	Southland(h)	2,235.8	DuPont	2,053.6
Cities Service	1,839.0	Conoco	1,864.1	Standard of Ohio	2,004.5	Standard of Ohio	1,955.2
Marathon	1,552.0	Ashland	1,768.6	DuPont	1,981.5	Ashland	1,662.8
Ashland(d)	1,283.0	Getty	1,565.2	Ashland	1,715.9	Tosco	1,166.0
Getty(e)	1,108.0	Cities Service	1,517.9	Getty	1,278.4	Diamond Shamrock	1,005.6
Tenneco	838.0	Clark	1,195.8	Tosco	1,162.2	American Petrofina	990.6
Kerr-McGee(f)	690.0	Tosco	960.2	Diamond Shamrock(i)	944.2	Tenneco	793.3
Murphy	677.0	Tenneco	928.7	American Petrofina	913.5	Total	734.3
U.S. TOTAL	89,862.0	U.S. TOTAL	105,228.5	U.S. TOTAL	102,215.6	U.S. TOTAL	105,066.5

See notes and sources at end of table

Section VII
Table 20a

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1985		1986		1987		1988	
Company	Sales	Company	Sales	Company	Sales	Company	Sales
Chevron	8,423.4	Shell	8,692.1	Shell	9,074.7	Shell	9,442.8
Amoco (Standard of Indiana)	8,077.8	Amoco	8,330.2	Amoco	8,179.9	Amoco	8,317.7
Shell	7,719.4	Exxon	7,799.2	Exxon	7,608.7	Exxon	8,091.7
Exxon	7,492.9	Chevron(l)	7,620.9	Mobil	7,527.9	Mobil	7,830.3
Texaco	7,051.6	Mobil	7,136.8	Chevron	7,233.2	Chevron	7,421.9
Mobil	6,511.4	Texaco	7,102.0	Texaco	7,084.6	Texaco	7,038.3
Atlantic Richfield	4,283.1	Unocal	4,058.9	Unocal	4,118.9	Unocal	4,145.7
Union	3,979.1	Standard Oil	3,730.9	BP America (Standard)(n)	3,718.2	BP America	3,699.0
Standard Oil (Ohio)(b)	3,806.7	Phillips	3,204.4	Phillips	3,420.4	Phillips	3,681.8
Phillips	3,201.4	ARCO	2,887.7	ARCO	3,201.5	Sun(u)	3,664.0
Sun	2,690.7	Sun	2,777.7	Sun	2,917.7	ARCO	3,360.3
Southland	2,525.3	Southland	2,768.7	USX(o)	2,720.2	USX(v)	2,765.2
U.S. Steel	2,499.2	USX (U.S. Steel)	2,752.4	DuPont(p)	2,373.5	DuPont(w)	2,451.8
DuPont	2,123.4	DuPont	2,246.6	Ashland	1,898.5	Ashland	1,965.4
Ashland	1,700.1	Ashland	1,853.0	Petroleos de Venezuela(q)	1,655.3	Southland(x)	1,560.1
American Petrofina	983.6	Diamond Shamrock	1,030.4	Cumberland Farms	1,469.6	Cumberland Farms	1,420.8
Diamond Shamrock	976.3	American Petrofina	969.1	Southland(r)	1,458.5	Petroleos de Venezuela(y)	1,361.5
Tenneco	888.5	Tenneco	913.2	Coastal(m)	1,005.0	Coastal States	1,060.5
Amerada Hess	764.4	Getty Petroleum	804.1	Diamond Shamrock Refining and Marketing(s)	952.9	Diamond Shamrock	974.6
Kerr-McGee	725.6	Cumberland Farms(t)	776.2	Tenneco	939.4	American Petrofina	945.8
U.S. TOTAL	106,425.7	U.S. TOTAL	109,880.5	U.S. TOTAL	111,965.4	U.S. TOTAL	114,532.4

See notes and sources at end of table

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1989

Company	Sales
Shell	9,402.3
Amoco	8,510.5
Exxon	8,096.5
Mobil	7,832.4
Chevron	7,391.1
Texaco(z)	4,978.8
Unocal	4,144.5
BP America	3,819.9
Sun	3,704.7
Phillips	3,594.7
ARCO	3,434.6
USX(v)	2,980.5
DuPont(w)	2,421.8
Aramco(z)	2,315.4
Petroleos de Venezuela(y)	1,549.9
Southland(x)	1,456.4
Cumberland Farms	1,384.5
Coastal States	1,054.8
Diamond Shamrock	1,001.5
American Petrofina	931.8
U.S. TOTAL	115,344.9

See notes and sources at end of table

Section VII
Table 20c

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

(a) Sales data represent net taxable gasoline gallonage sold in the U.S. by all petroleum marketers, including non-retail sales by suppliers, cooperatives, etc. Lundberg Survey, Inc. obtains data primarily from state tax collecting agencies, and also by direct inquiry.

(b) Includes sales of subsidiaries BP Oil and Boron.

(c) Includes sales under the brand names of Douglas, Kayo and Onco.

(d) Includes sales of subsidiary Northwestern Refining Company.

(e) Includes all sales by Skelly Oil Company.

(f) Includes sales under the brand name Triangle.

(g) Unocal Corporation is the parent of Union Oil Company of California.

(h) Includes Cities Service. Southland acquired the refining, marketing and transportation sections of Citgo Petroleum Corp., a subsidiary of Occidental, on September 1, 1983.

(i) Diamond Shamrock acquired Sigmor in September 1983.

(j) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure reflects this acquisition.

(k) Texaco acquired Getty Oil Company on March 1, 1984. Texaco's figures reflects this acquisition.

(l) During 1986 Chevron sold most of its petroleum marketing and distribution assets in ten northwestern states and Ohio. The primary purchaser of these operations was Cumberland Farms, Inc.

(m) Includes sales under brand names Derby and Beicher.

(n) BP America was formed in 1987 through the acquisition of the Standard Oil Company by BP North America Inc.

(o) USX's figure includes sales under the brand name Marathon and affiliated brands.

(p) DuPont's figure includes sales under the brand name Conoco and affiliated brands.

(q) Petroleos de Venezuela, the Venezuelan national oil company, owns one-half of Citgo Petroleum, and one-half of Champlin Refining Company.

(r) Southland's figure represents the Southland Corporation's 50 percent ownership of Citgo Petroleum.

(s) Diamond Shamrock Refining and marketing became an independent company on Apil 30 from Maxus Energy Corporation (the former Diamond Shamrock).

(t) Cumberland Farms purchased the Gulf assets from Chevron in 11 northeastern states. Cumberland Farms operates a division using the Gulf brand name in all states in its marketing territory, except Florida.

(u) On November 1, 1988, Sun Company acquired the assets of Atlantic Petroleum Corporation. Sun's figure includes 100 percent of Atlantic's annual motor gasoline sales of 674,481,000 gallons.

(v) USX's figure includes sales under the brand name Marathon, and affiliated brands.

(w) DuPont's figure includes sales under the brand name Conoco and affiliated brands.

(x) Southland's figure represents the Southland Corporation's 50 percent ownership of Citgo Petroleum.

(y) Petroleos de Venezuela, (PDV) the Venezuelan national oil company, owns one-half of Citgo Petroleum, in 1989 Citgo's motor gasoline sales were 2,257,377,000 gallons. In 1988 it owned half of Champlin Refining Company. On January 1, 1989, PDV acquired the other equity share of Champlin Refining Company from Union Pacific Resources.

(z) Figures for both Texaco and Aramco include their equity portion of the total motor gasoline sales (4,630,800,000 gallons) of Star Enterprise, a joint venture formed on December 31, 1988 between Texaco and Aramco Services (the Saudi Arabian Oil Company).

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1986

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	46,440	3,949	18,200	9,171	3,486	4,170	7,126	92,551
Alaska	5,426	16,804	9,176	5,827	373	317	4,930	42,854
Arizona	37,845	7,923	11,324	32	2,530	2,031	544	62,228
Arkansas	27,901	2,030	13,983	6,452	982	3,980	2,178	57,492
California	279,574	76,514	75,275	64,099	15,373	20,975	54,299	586,109
Colorado	36,505	8,241	10,173	1,037	3,091	2,194	1,558	62,799
Connecticut	31,861	1,327	20,893	20,847	2,124	1,117	1,827	79,996
Delaware	7,719	1,361	3,484	4,615	609	893	3,625	22,294
Dist. of Columbia	3,877	501	2,402	1,183	31	3	54	8,051
Florida	131,094	26,045	32,552	52,969	8,240	10,756	4,713	266,370
Georgia	76,959	17,995	24,781	2,464	5,641	6,528	5,429	139,797
Hawaii	7,878	10,455	4,585	14,268	272	160	1,267	38,905
Idaho	10,894	1,204	5,914	65	544	731	162	19,533
Illinois	108,643	2,263	35,541	9,156	6,186	36,627	26,566	224,980
Indiana	59,994	19,045	32,545	5,106	6,063	8,890	12,563	144,306
Iowa	31,356	746	16,078	612	2,038	14,011	1,804	66,645
Kansas	28,453	7,200	14,394	584	2,657	17,906	7,061	78,255
Kentucky	42,519	3,634	21,515	891	2,285	6,558	8,344	85,747
Louisiana	49,923	18,004	37,997	33,769	1,792	54,916	68,499	264,899
Maine	13,437	1,673	11,834	9,707	734	1,011	175	38,570
Maryland	46,915	3,990	17,859	6,435	5,211	1,433	3,839	85,683
Massachusetts	56,381	7,058	35,978	43,351	1,114	2,275	3,143	149,302
Michigan	96,017	7,379	26,922	4,315	3,384	19,432	12,112	169,561
Minnesota	45,777	8,026	19,011	2,160	5,480	9,569	4,542	94,565
Mississippi	28,549	5,051	15,968	12,402	1,904	3,630	5,086	72,589
Missouri	63,390	6,874	18,403	677	4,624	9,144	9,029	112,141
Montana	10,158	972	7,023	198	1,989	1,509	2,877	24,727
Nebraska	17,757	1,470	12,221	293	954	3,888	604	37,188
Nevada	12,212	6,076	5,534	612	567	1,093	133	26,225
New Hampshire	11,130	658	5,974	6,204	553	1,697	292	26,507
New Jersey	80,694	39,356	45,583	23,326	5,565	5,643	29,085	229,250
New Mexico	18,298	2,887	10,629	1,657	1,616	1,819	1,446	38,352
New York	136,801	3,994	72,094	69,582	6,430	4,959	9,376	303,225
North Carolina	74,006	7,350	29,611	4,039	4,533	7,406	6,026	133,050
North Dakota	8,580	1,683	7,421	454	877	2,446	1,036	22,497
Ohio	111,936	10,299	37,420	2,770	7,341	17,716	20,302	207,784
Oklahoma	40,569	6,192	14,025	472	3,281	7,497	6,419	78,455
Oregon	29,947	2,811	14,904	5,707	2,225	1,712	1,870	59,183
Pennsylvania	104,105	10,196	56,210	19,790	5,956	8,400	19,312	223,941
Rhode Island	8,938	422	5,387	2,921	1,479	563	108	19,918
South Carolina	39,284	3,324	12,295	1,580	2,068	2,928	4,989	66,467
South Dakota	9,004	601	6,096	72	815	2,481	142	19,210
Tennessee	60,297	6,128	23,131	700	4,158	3,971	9,949	108,332
Texas	209,517	81,753	95,477	34,376	13,645	217,014	147,772	799,555
Utah	17,541	4,445	7,332	1,496	1,295	1,546	2,389	36,045
Vermont	5,966	160	4,167	298	419	802	68	11,957
Virginia	65,186	13,383	29,847	9,878	4,444	3,379	4,795	130,911
Washington	46,951	17,301	23,520	16,428	2,404	2,833	10,901	120,346
West Virginia	18,653	269	7,971	747	565	910	16,790	45,904
Wisconsin	47,422	1,670	22,049	1,242	2,055	8,262	3,404	86,104
Wyoming	7,152	194	6,907	600	1,604	2,150	2,463	21,272
TOTAL U.S.	2,567,400	486,900	1,099,600	517,700	163,600	552,100	553,100	5,942,400

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1987

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	48,421	4,015	20,902	10,821	4,564	4,784	8,251	101,759
Alaska	5,190	15,058	9,562	1,658	257	281	4,444	36,451
Arizona	39,180	8,581	10,664	112	2,492	2,037	615	63,681
Arkansas	28,509	2,155	14,141	2,664	1,018	3,612	2,344	54,443
California	292,232	80,941	74,324	61,449	16,458	21,290	55,333	602,028
Colorado	36,111	8,525	9,928	209	3,110	2,278	1,838	61,999
Connecticut	32,353	1,839	21,533	17,986	2,139	1,457	1,900	79,205
Delaware	7,867	1,303	4,035	3,939	573	962	3,761	22,440
Dist. of Columbia	4,236	–	1,945	1,110	31	4	61	7,386
Florida	137,457	27,280	33,564	41,249	7,583	8,456	4,803	260,392
Georgia	79,934	19,909	26,159	2,233	5,977	6,167	5,453	145,832
Hawaii	8,167	11,730	4,060	13,377	397	177	1,563	39,470
Idaho	10,702	1,230	6,392	387	499	604	183	19,999
Illinois	110,253	2,156	34,396	7,127	6,315	42,328	28,807	231,382
Indiana	63,170	19,519	32,177	3,751	7,600	9,452	14,378	150,047
Iowa	31,614	889	15,859	124	1,788	8,938	1,925	61,137
Kansas	29,085	4,406	16,776	367	2,614	16,894	7,620	77,761
Kentucky	42,886	4,869	21,105	890	2,701	7,673	10,041	90,185
Louisiana	48,106	19,006	37,774	43,582	2,275	51,530	73,892	276,165
Maine	14,072	1,866	12,368	7,800	852	1,220	197	38,376
Maryland	48,104	3,858	18,770	7,955	4,823	1,653	4,762	89,923
Massachusetts	57,559	7,973	38,148	34,946	1,479	2,469	3,326	145,900
Michigan	98,925	8,613	25,691	3,418	3,506	19,822	12,898	172,872
Minnesota	46,910	5,834	18,345	1,261	5,860	7,601	5,132	90,942
Mississippi	29,241	7,770	17,978	2,607	2,174	3,795	5,883	69,449
Missouri	63,611	7,597	19,337	709	4,351	8,632	9,939	114,175
Montana	10,234	800	6,562	139	1,642	1,679	3,641	24,698
Nebraska	17,844	1,463	12,390	274	1,241	4,752	649	38,614
Nevada	13,045	6,532	6,518	465	864	949	153	28,527
New Hampshire	11,819	672	7,808	5,051	779	1,966	312	28,406
New Jersey	81,137	43,524	44,575	17,588	5,312	6,480	30,384	228,999
New Mexico	18,897	3,070	11,601	602	2,069	1,599	1,620	39,456
New York	142,598	3,030	75,451	69,492	6,553	5,275	11,090	313,490
North Carolina	76,542	7,967	30,478	4,447	4,022	8,538	6,607	138,600
North Dakota	8,816	1,283	6,826	371	884	2,284	1,159	21,623
Ohio	115,823	11,039	34,801	2,166	9,006	17,825	22,774	213,432
Oklahoma	38,642	7,619	14,016	346	2,729	6,422	7,310	77,084
Oregon	30,579	3,055	16,212	4,312	2,140	1,529	2,601	60,427
Pennsylvania	106,382	10,677	59,395	19,369	6,572	8,092	21,437	231,924
Rhode Island	9,119	570	6,118	1,959	1,773	622	212	20,371
South Carolina	38,973	3,312	12,628	1,663	2,425	3,455	5,650	68,108
South Dakota	8,995	749	5,932	57	674	3,319	161	19,888
Tennessee	62,989	5,872	23,182	334	4,565	3,484	10,336	110,762
Texas	204,864	85,712	97,595	36,551	12,601	254,648	155,092	847,062
Utah	17,582	5,068	6,791	2,167	1,429	1,622	2,680	37,339
Vermont	6,514	202	4,550	238	491	1,054	77	13,127
Virginia	69,733	14,506	30,735	8,725	4,406	3,945	5,073	137,123
Washington	51,133	18,871	21,505	11,125	2,268	3,439	15,211	123,552
West Virginia	19,293	246	9,297	379	537	920	17,031	47,702
Wisconsin	47,381	1,531	21,252	1,232	2,396	7,651	3,684	35,126
Wyoming	7,261	253	8,780	720	1,469	2,619	2,801	23,902
TOTAL U.S.	2,630,100	514,500	1,120,900	461,500	170,300	588,300	597,100	6,082,700

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1988

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	Propane	All Other	Total Products
Alabama	48,151	2,029	23,390	13,001	4,132	4,881	8,306	103,890
Alaska	5,325	17,306	8,848	516	698	284	5,292	38,270
Arizona	40,269	8,664	10,538	35	2,683	1,757	593	64,538
Arkansas	29,578	2,321	15,108	1,890	1,373	3,889	2,400	56,560
California	304,020	83,932	84,804	60,717	15,343	22,157	62,264	633,235
Colorado	36,437	6,627	11,262	50	3,552	2,631	1,959	62,515
Connecticut	32,881	2,204	23,314	20,944	1,853	1,538	1,877	84,612
Delaware	8,195	1,380	4,009	5,750	410	1,047	4,161	24,953
Dist. of Columbia	4,364	5	1,875	1,110	33	5	59	7,451
Florida	141,915	32,843	34,958	49,879	7,931	8,220	4,699	280,444
Georgia	83,630	20,522	28,078	2,333	6,048	6,955	5,320	152,886
Hawaii	8,487	12,253	5,915	15,289	351	190	2,012	44,500
Idaho	11,219	1,230	6,515	252	402	731	177	20,526
Illinois	116,201	4,143	33,977	6,194	5,604	46,634	31,441	244,193
Indiana	64,225	16,978	29,385	3,363	6,941	9,872	15,920	146,683
Iowa	32,552	858	16,042	277	2,213	10,110	1,871	63,924
Kansas	30,859	4,324	16,629	863	4,378	19,499	8,748	85,300
Kentucky	44,191	5,047	25,571	612	2,616	8,054	10,449	96,539
Louisiana	48,882	21,546	43,595	45,192	2,398	49,943	80,432	291,987
Maine	15,388	2,169	14,176	10,172	1,586	1,825	190	45,307
Maryland	49,190	4,575	19,256	9,356	4,350	1,733	4,575	93,034
Massachusetts	59,422	9,447	36,959	36,378	1,763	2,403	3,225	149,597
Michigan	102,502	8,826	28,056	4,973	2,876	21,140	12,854	181,228
Minnesota	48,877	5,308	20,048	1,373	4,897	8,244	6,175	94,922
Mississippi	29,517	8,135	20,622	8,124	2,627	4,256	6,886	80,167
Missouri	64,948	7,469	21,315	815	5,657	9,757	9,853	119,813
Montana	10,455	916	6,311	991	1,473	1,483	4,041	25,670
Nebraska	18,634	1,601	14,063	437	1,262	5,371	642	42,010
Nevada	14,078	6,536	6,848	925	931	1,117	161	30,596
New Hampshire	12,337	762	7,031	5,993	430	2,163	317	29,032
New Jersey	81,188	40,972	46,762	18,867	4,332	6,362	31,418	229,901
New Mexico	19,328	2,867	11,151	667	2,113	1,654	1,837	39,616
New York	133,365	5,019	77,891	82,004	7,989	5,396	11,262	322,926
North Carolina	79,036	8,554	33,764	4,568	4,490	8,137	6,641	145,190
North Dakota	8,599	1,347	6,789	376	956	2,308	1,331	21,704
Ohio	117,047	9,549	38,626	2,998	6,356	14,104	23,397	212,077
Oklahoma	38,857	7,396	14,996	710	3,564	6,103	8,393	80,018
Oregon	32,134	3,287	16,501	4,756	2,423	1,583	2,547	63,232
Pennsylvania	110,875	11,894	60,454	18,892	5,473	6,209	23,129	236,925
Rhode Island	9,289	682	5,988	2,682	1,741	568	190	21,139
South Carolina	37,450	3,356	13,291	2,420	3,297	3,637	5,747	69,197
South Dakota	9,187	964	6,244	90	878	2,405	155	19,923
Tennessee	59,380	4,414	24,482	480	4,042	4,464	10,723	107,991
Texas	208,955	95,806	90,647	32,465	14,434	263,585	168,319	874,210
Utah	18,172	5,089	7,349	1,292	1,069	1,408	3,037	37,417
Vermont	6,806	160	4,880	174	396	1,199	72	13,687
Virginia	71,192	15,774	33,999	8,416	3,604	4,406	5,121	142,513
Washington	50,765	20,861	22,399	11,823	1,921	2,855	16,611	127,235
West Virginia	19,770	286	9,336	463	879	1,057	17,469	49,261
Wisconsin	49,587	1,437	24,244	1,178	3,416	8,914	3,693	92,469
Wyoming	7,436	246	9,418	1,151	1,046	2,030	3,352	24,679
TOTAL U.S.	2,685,100	539,900	1,177,700	504,300	171,200	606,100	641,300	6,325,700

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1989

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	49,464	2,179	25,865	13,550	4,484	6,197	7,368	109,107
Alaska	5,077	19,077	11,058	329	274	277	4,797	40,890
Arizona	40,629	8,367	11,501	154	2,386	1,632	731	65,399
Arkansas	29,395	2,041	14,997	3,298	778	4,856	2,408	57,773
California	310,769	91,594	82,135	60,455	14,996	24,137	58,627	642,713
Colorado	35,403	5,518	10,313	150	2,928	3,640	2,070	60,023
Connecticut	32,258	2,282	25,955	20,371	1,797	1,630	1,861	86,154
Delaware	8,151	1,273	4,355	4,870	522	1,016	4,175	24,363
Dist. of Columbia	4,198	0	1,870	1,381	27	5	61	7,541
Florida	142,152	34,542	35,765	48,759	6,481	8,375	4,667	280,741
Georgia	83,531	17,661	28,278	1,401	4,958	7,788	5,267	148,885
Hawaii	8,750	13,526	5,686	19,693	296	185	2,098	50,232
Idaho	11,297	1,294	6,867	332	831	808	181	21,609
Illinois	115,487	4,689	34,962	4,723	8,052	15,984	31,397	215,295
Indiana	61,672	17,845	33,826	4,103	6,396	11,273	15,920	151,035
Iowa	32,558	861	15,038	234	1,710	10,245	1,864	62,509
Kansas	29,838	3,989	15,845	456	3,109	19,479	8,848	81,564
Kentucky	43,408	5,124	29,156	603	2,764	7,730	10,298	99,083
Louisiana	46,863	22,436	38,764	42,030	2,315	39,098	80,649	272,154
Maine	14,187	2,317	12,731	8,123	1,000	1,619	195	40,173
Maryland	49,100	4,467	21,072	13,426	4,500	2,232	3,797	98,596
Massachusetts	58,262	10,123	40,569	33,820	1,426	2,649	3,191	150,040
Michigan	101,095	9,503	25,432	5,032	3,863	22,217	12,864	180,008
Minnesota	48,553	4,821	19,544	1,361	4,923	8,402	6,838	94,442
Mississippi	29,009	6,720	17,773	16,743	1,975	5,888	7,021	85,127
Missouri	63,684	7,477	22,254	701	4,545	11,261	9,691	119,614
Montana	10,305	845	7,681	1,327	1,749	1,683	4,159	27,749
Nebraska	18,418	1,581	12,456	462	1,130	5,130	648	39,825
Nevada	14,563	6,223	7,493	680	1,398	1,756	166	32,279
New Hampshire	12,279	792	7,822	5,576	742	2,609	315	30,134
New Jersey	81,366	44,268	45,788	17,161	4,032	5,325	32,028	229,968
New Mexico	18,888	2,945	9,697	2,004	1,666	7,272	1,899	44,369
New York	133,419	6,136	78,951	73,964	4,967	5,856	11,093	314,386
North Carolina	77,740	7,920	28,706	2,655	3,766	9,854	6,509	137,150
North Dakota	8,394	1,367	7,022	378	924	2,505	1,349	21,939
Ohio	116,158	10,655	39,684	2,807	10,622	16,414	23,422	219,763
Oklahoma	38,870	9,404	14,891	499	2,750	6,770	8,716	81,902
Oregon	31,874	3,479	16,335	4,742	2,802	1,605	2,490	63,329
Pennsylvania	108,862	9,838	62,881	17,179	6,718	7,112	23,297	235,887
Rhode Island	8,869	770	5,933	1,172	1,605	515	190	19,054
South Carolina	42,627	3,237	13,196	1,482	2,313	3,861	5,627	72,342
South Dakota	9,121	1,112	5,454	84	776	5,187	159	21,894
Tennessee	60,028	4,538	24,202	589	5,703	4,746	10,551	110,359
Texas	203,422	94,085	95,119	33,654	9,682	277,172	167,829	880,963
Utah	17,303	5,201	6,184	1,842	1,671	1,464	3,177	36,842
Vermont	6,551	237	4,805	89	453	1,588	73	13,797
Virginia	70,896	15,843	30,394	9,539	4,203	4,719	5,120	140,714
Washington	53,788	20,780	22,206	14,085	2,612	3,626	18,267	135,364
West Virginia	19,475	418	10,333	462	812	1,331	17,746	50,577
Wisconsin	49,106	1,472	24,349	1,312	3,805	9,755	3,687	93,486
Wyoming	7,557	199	9,785	223	924	2,446	3,402	24,535
TOTAL U.S.	2,674,700	553,000	1,183,000	500,100	165,200	608,900	638,900	6,323,700

SOURCE: U.S. Energy Information Administration, State Energy Data Report, 1960-1989.

Historical United States Oil Consumption by Major Product: 1918-1946
(Thousands of Barrels)

Year	Total Consumption	Motor Fuels(a)	Distillate	Residual	Kerosine	Other
1918	271,706	79,949	142,751 (b)	(b)	34,442	14,564
1919	374,586	88,648	163,803 (b)	(b)	33,188	88,947
1920	455,806	108,945	185,972 (b)	(b)	33,082	127,807
1921	457,560	116,840	195,656 (b)	(b)	29,537	115,527
1922	530,975	137,770	237,063 (b)	(b)	34,851	121,291
1923	652,114	174,462	261,388 (b)	(b)	35,536	180,728
1924	687,540	196,586	290,766 (b)	(b)	36,712	163,476
1925	727,178	232,745	307,033 (b)	(b)	39,969	147,431
1926	780,755	268,128	339,572 (b)	(b)	38,140	134,915
1927	803,177	305,367	339,265 (b)	(b)	37,491	121,054
1928	860,241	338,881	383,974 (b)	(b)	36 235	101,151
1929	940,581	382,878	415,156 (b)	(b)	36,032	106,515
1930	926,642	397,609	368,531 (b)	(b)	34,736	125,766
1931	902,593	403,843	334,668 (b)	(b)	31,358	132,724
1932	835,230	377,791	65,101	243,056	33,221	116,061
1933	868,200	380,494	64,748	258,957	38,493	125,508
1934	919,838	410,339	74,824	265,547	44,234	124,894
1935	983,317	434,810	86,028	280,695	47,645	134,139
1936	1,092,379	481,606	102,757	307,884	51,428	148,704
1937	1,169,205	519,352	116,841	325,514	54,972	152,526
1938	1,136,705	523,003	117,449	291,833	56,360	148,060
1939	1,230,486	555,509	134,973	323,488	60,503	156,013
1940	1,326,620	589,490	160,851	340,163	68,776	167,340
1941	1,485,779	667,506	172,824	383,422	69,469	192,559
1942	1,449,908	589,110	185,661	405,697	69,767	199,673
1943	1,521,426	568,238	208,110	467,008	68,598	209,472
1944	1,671,263	632,482	209,320	512,020	71,812	245,629
1945	1,772,685	696,333	226,084	523,423	75,573	251,272
1946	1,792,786	735,417	242,894	480,029	89,088	245,358

(a) Motor gasoline
(b) Distillate and residual fuel oils not reported separately until 1932.

SOURCE: U.S. Department of Interior, Bureau of Mines, Mineral Yearbooks.

BASIC PETROLEUM DATA BOOK

SECTION VIII. REFINING

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Section VIII
Table 1

Estimated Worldwide Crude Oil Refining Capacity by Area as of January 1
(Barrels per day)

Year	United States(a)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Sub Total	Communist Nations	USSR/ E. Europe(c)	Total World
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000 (b)	NA	9,119,034
1948	6,034,252	1,479,350	7,513,602	869,100	47,750	202,850	682,990	9,306,292	650,000 (b)	NA	9,956,292
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000 (b)	NA	11,109,245
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	NA	11,361,500
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000 (b)	NA	12,023,744
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100 (b)	NA	12,979,085
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	NA	14,247,520
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	NA	15,391,577
1955	8,386,044	2,566,500	10,952,544	1,184,300	68,400	613,700	2,365,900	15,184,844	1,784,000	NA	16,968,844
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	NA	17,290,336
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	NA	18,676,397
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	NA	NA	NA
1959	8,761,446	3,680,500	12,441,946	1,432,800	100,100	1,229,600	3,633,200	18,837,646	NA	NA	NA
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	NA	23,830,324
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	NA	NA	NA
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	NA	NA	NA
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	NA	NA	NA
1964	10,305,774	5,828,400	16,134,174	1,801,300	365,200	2,537,000	6,263,500	27,101,174	NA	NA	NA
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	NA	33,088,751
1966	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	NA	34,296,439
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	NA	NA	NA
1968	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	NA	41,343,204
1969	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	NA	45,194,209
1970	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	NA	48,355,873
1971	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	NA	53,183,528
1972	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	NA	56,845,268
1973	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	NA	59,282,384
1974	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	NA	64,118,536
1975	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	NA	67,551,454
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	NA	71,809,515
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	NA	75,180,964
1978	17,047,724	10,592,020	27,639,744	3,506,484	1,467,157	10,176,819	20,728,204	63,518,408	13,938,000	NA	77,456,408
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	nA	78,289,132
1980	17,988,121	10,683,671	28,671,792	3,518,080	1,666,108	10,386,375	20,243,747	64,486,102	15,346,000	NA	79,832,102
1981	18,620,520	10,716,881	29,337,401	3,729,646	1,697,658	10,554,691	20,205,799	65,525,195	16,036,500	NA	81,561,695
1982	17,889,734	10,720,055	28,609,789	3,312,152	1,761,870	10,966,825	19,444,519	64,095,155	16,533,000	NA	80,628,155
1983	16,859,337	9,873,816	26,733,153	3,685,333	1,882,105	10,902,204	17,124,989	60,327,784	16,873,000	NA	77,200,784
1984	16,137,141	9,590,962	25,728,103	3,901,082	1,879,990	10,473,079	16,231,932	58,214,186	17,200,000	NA	75,414,186
1985	15,658,769	9,457,706	25,116,475	4,052,673	2,447,156	10,393,562	15,654,622	57,664,488	17,500,000	NA	75,164,488
1986	15,458,948	8,613,690	24,072,638	4,274,255	2,520,403	10,111,652	14,071,507	55,050,455	17,500,000	NA	72,550,455
1987	15,565,513	8,676,740	24,242,253	3,862,622	2,523,563	10,400,180	13,929,325	54,957,943	17,610,000	NA	72,567,943
1988	15,915,418	8,856,748	24,772,166	4,146,222	2,630,250	10,274,302	14,127,595	55,950,535	17,610,000	NA	73,560,535
1989	15,556,700	8,839,238	24,395,938	4,334,676	2,786,987	10,064,786	13,858,624	55,441,011	17,798,135	NA	73,239,146

See notes and sources at end of table

Section VIII
Table 1a

Estimated Worldwide Crude Oil Refining Capacity by Area as of January 1
(Barrels per day)

Year	United States(a)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Sub Total	Communist Nations	USSR/ E. Europe(c)	Total World
1990	15,571,966	9,005,738	24,577,704	3,968,676	2,822,723	9,981,667	14,234,454	55,585,224	17,798,135	NA	73,383,359
1991	15,558,923	9,435,935	24,994,858	5,020,826	2,871,583	12,602,985	14,223,872	59,714,124	NA	14,926,589	74,640,713

(a) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
(b) Estimates for U.S.S.R. only
(c) Due to the political changes in the U.S.S.R. and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1947-1975: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"
1976-1990: United States: U.S. Energy Information Administration, Petroleum Refineries in the United States and
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue
1991: Oil and Gas Journal, "Worldwide Report" issue.

Worldwide Crude Oil Refinery Runs and Refinery Utilization Rates(a)
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416	14,602	14,739	14,648	13,483
Utilization Rate (%)	86.8	90.9	92.1	90.8	90.8	90.4	87.1	88	90.9	84.5	83.2	88	89	86.5	84	75
Other Western Hemisphere	4,880	5,070	5,240	5,485	5,780	6,185	6,690	6,980	7,645	7,655	7,215	7,380	7,520	7,795	8,180	8,545
Utilization Rate (%)	97.2	94.9	94.5	93.2	91.9	95	93.8	92.1	93.5	84.5	75.7	76	75.1	73.6	79.6	80
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625	12,775	12,855	13,665	12,330
Utilization Rate (%)	95.5	94.6	92.7	90.6	86.9	91.3	86.6	81.9	89.5	78.3	66.3	68.2	61.2	62	67.2	60.9
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300	2,240	2,535	2,365	2,445
Utilization Rate (%)	84.7	82.7	83.9	86	81.6	86.3	70.6	75.9	78.7	80.8	63.2	70	66.9	72.3	66.7	69.5
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020	1,165	1,280	1,355	1,460
Utilization Rate (%)	92.4	88.1	80.9	72.2	70.7	90.4	80	90.4	109.7	83.3	90	76.8	80.7	87.3	81.2	87.6
Austral-Asia	2,530	2,975	3,475	4,350	4,930	5,580	6,230	6,350	7,345	7,035	6,755	7,375	7,600	7,905	8,165	7,730
Utilization Rate (%)	79.6	84.6	87.8	100.6	100.2	100.3	102.8	93.1	92.8	78.8	71.9	74.7	76.5	77.7	79.4	74.4
Subtotal	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116	45,902	47,109	48,378	45,993
Utilization Rate (%)	90.1	91.3	91.4	91.7	89.9	92.5	88.8	86.6	90.8	81.3	73.5	75.9	73.9	74.4	76.1	71.3
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575	11,930	12,875	13,230	13,320
Utilization Rate(%)	NA	NA	NA	NA	NA	103.4	99.8	101.6	102.8	105.2	104.3	93.3	91.3	92.4	89.7	86.8
USSR/ E. Europe(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Utilization Rate (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116	45,902	47,109	48,378	45,993
Utilization Rate (%)	NA	NA	NA	NA	NA	94.1	90.4	88.8	92.7	84.9	78.3	78.9	76.9	77.6	78.7	74.3

See notes and sources at end of table

Worldwide Crude Oil Refinery Runs and Refinery Utilization Rates(a)
(Thousands of barrels per day)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
United States	12,477	11,774	11,685	12,044	12,165	12,716	12,854	13,283	13,401	13,409
Utilization Rate (%)	67	65.8	69.3	76.9	77.6	82.3	83.1	83.4	85.3	85.8
Other Western Hemisphere	8,520	7,730	7,370	7,285	6,945	6,955	7,125	7,125	7,375	7,465
Utilization Rate (%)	79.5	72.1	74.7	76	74.4	73.8	74	75.3	75.6	75.9
Western Europe	10,970	10,075	9,710	9,790	9,490	10,060	9,960	10,310	10,340	11,090
Utilization Rate (%)	54.3	51.8	56.7	60.3	60.6	70.2	70.2	73.6	75.4	78.2
Middle East	2,205	2,245	2,515	2,665	2,795	2,950	2,970	3,140	3,355	3,290
Utilization Rate (%)	59.1	67.8	68.2	75.8	75.3	69	71.3	71.9	83.8	65.1
Africa	1,525	1,735	1,920	1,975	2,015	2,095	2,170	2,200	2,175	2,335
Utilization Rate (%)	89.8	98.5	102	77.8	79.2	83.1	82.5	78.3	76.7	80.9
Austral-Asia	7,560	7,160	7,120	7,310	7,370	7,465	7,490	7,745	8,175	10,875
Utilization Rate (%)	71.6	65.3	65.3	69.8	70.9	71	72.2	76.1	80.3	83.8
Subtotal	43,257	40,719	40,320	41,069	40,780	42,241	42,569	43,803	44,821	NA
Utilization Rate (%)	66	63.5	66.8	70.7	72.2	75.3	75	77.5	80	NA
Communist Nations	13,420	13,575	13,675	13,885	14,165	14,500	14,405	14,520	14,520	NA
Utilization Rate(%)	83.7	82.1	81	80.7	80.9	81.9	81.9	81.6	79.8	NA
USSR/ E. Europe(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,120
Utilization Rate (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	72.8
Total World	43,257	40,719	40,320	41,069	40,780	42,241	42,569	43,803	44,821	59,770
Utilization Rate (%)	68.5	67.3	69.9	73	74.5	76.9	76.9	78.3	79.8	78.9

(a) Utilization rates, obtained by dividing crude runs by crude refining capacity, were calculated by API.
(b) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region, rather than polical ideology.

SOURCE: U.S.: 1965-1975: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
U.S.: 1976-1990–Energy Information Administration, Annual Petroleum Statements and Petroluem Supply Annuals.
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

Section VIII
Table 3

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1980					1981				
	Gasoline(b)	Distillate	Residual	Other(c)	Total	Gasoline(b)	Distillate	Residual	Other(c)	Total
United States	6,526	2,661	1,580	3,855	14,622	6,437	2,613	1,321	3,638	14,009
Canada	665	499	309	557	2,030	638	448	271	526	1,883
Mexico	329	245	309	371	1,254	360	270	365	297	1,292
Central and South America (a)	920	1,134	2,011	1,151	5,216	943	1,060	1,773	1,086	4,862
Western Europe	2,477	4,112	3,592	3,060	13,241	2,368	3,649	3,217	2,973	12,207
Middle East	325	545	890	1,076	2,836	304	544	837	996	2,681
Africa	286	394	433	378	1,491	297	397	434	371	1,499
Asia	1,473	1,864	3,691	3,092	10,120	1,410	2,017	2,917	3,355	9,699
Eastern Europe and U.S.S.R.	2,080	2,962	3,478	3,665	12,185	2,087	2,981	3,490	3,493	12,051
Total World	15,081	14,416	16,293	17,205	62,995	14,844	13,979	14,625	16,735	60,183

See notes and sources at end of table

Section VIII
Table 3a

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1982					1983				
	Gasoline(b)	Distillate	Residual	Other(c)	Total	Gasoline(b)	Distillate	Residual	Other(c)	Total
United States	6,358	2,606	1,070	3,357	13,391	6,360	2,456	852	3,470	13,138
Canada	619	396	208	416	1,639	597	388	175	406	1,566
Mexico	346	235	350	371	1,302	353	224	350	402	1,329
Central and South America (a)	940	988	1,720	1,063	4,711	963	1,034	1,511	1,153	4,661
Western Europe	2,456	3,530	2,896	2,307	11,187	2,529	3,434	2,630	2,398	10,991
Middle East	324	648	925	892	2,789	319	681	925	958	2,883
Africa	317	454	507	434	1,712	324	505	547	461	1,837
Asia	1,439	2,200	2,781	2,723	9,143	1,544	2,242	2,712	2,711	9,209
Eastern Europe and U.S.S.R.	2,158	3,023	3,437	3,602	12,220	2,271	3,090	3,476	3,441	12,278
Total World	14,957	14,080	13,894	15,165	58,094	15,260	14,054	13,178	15,400	57,892

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1984					1985				
	Gasoline(b)	Distillate	Residual	Other(c)	Total	Gasoline(b)	Distillate	Residual	Other(c)	Total
United States	6,478	2,680	891	3,630	13,679	6,441	2,687	882	3,740	13,750
Canada	586	410	161	548	1,705	589	401	127	691	1,807
Mexico	363	266	375	479	1,483	360	292	398	523	1,572
Central and South America (a)	1,027	1,075	1,417	1,205	4,723	908	1,049	1,245	1,175	4,379
Western Europe	2,624	3,609	2,537	3,170	11,939	2,684	3,574	2,306	3,128	11,692
Middle East	401	805	970	1,122	3,296	427	952	1,034	1,065	3,479
Africa	322	495	536	527	1,879	351	515	537	494	1,896
Asia	1,612	2,325	2,623	2,979	9,540	1,659	2,417	2,343	2,966	9,385
Eastern Europe and U.S.S.R.	2,153	3,043	3,452	3,426	12,075	2,172	2,984	3,426	3,184	11,766
Total World	15,566	14,708	12,962	17,086	60,319	15,591	14,871	12,298	16,966	59,726

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1986					1987				
	Gasoline(b)	Distillate	Residual	Other(c)	Total	Gasoline(b)	Distillate	Residual	Other(d)	Total
United States	6,752	2,796	889	4,085	14,522	6,841	2,729	885	4,171	14,626
Canada	551	394	115	475	1,535	571	411	122	547	1,651
Mexico	369	243	468	446	1,526	368	233	456	462	1,519
Central and South America (a)	892	1,062	1,178	1.217	4,349	896	1,093	1,109	1,166	4,264
Western Europe	2,772	3,902	2,450	2,905	12,029	2,860	3,740	2,410	2,996	12,006
Middle East	493	1,022	1,301	1,193	4,009	527	1,110	1,317	1,015	3,969
Africa	317	504	600	496	1,917	333	543	618	537	2,031
Asia	1,694	2,570	2,292	3,030	9,586	1,735	2,651	2,317	3,006	9,709
Eastern Europe and U.S.S.R.	2,247	2,840	4,219	3,089	12,395	2,279	2,838	4,017	3,154	12,288
Total World	16,087	15,333	13,512	16,936	61,868	16,410	15,348	13,251	17,054	62,063

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1988				
	Gasoline(b)	Distillate	Residual	Other(d)	Total
United States	6,956	2,857	926	4,283	15,022
Canada	599	440	139	486	1,664
Mexico	375	206	421	409	1,411
Central and South America (a)	916	1,147	1,142	1,167	4,372
Western Europe	2,968	3,903	2,365	3,243	12,479
Middle East	579	1,190	1,417	995	4,181
Africa	341	582	624	555	2,102
Asia	1,815	2,766	2,491	3,013	10,085
Eastern Europe and U.S.S.R.	2,340	2,889	3,776	2,383	11,388
Total World	16,889	15,980	13,301	16,534	62,704

(a) Includes Cuba.
(b) Includes motor gasoline and aviation gasoline.
(c) Includes refinery fuels and loss.
(d) Includes other finished products and unfinished oils requiring further processing. These include asphalt, coke, aviation gasoline, naphthas, paraffin wax, petrochemical feedstocks, unfinished oils, white spirits, etc.

SOURCE: U.S. Energy Information Administration, International Energy Annuals.

Section VIII
Table 4

United States Crude Oil Refining Capacity as of January 1(a)

Year	Number of Refineries			Crude Oil Throughput Capacity		
	Operating	Shutdown(d)	Total	Operating	Operable Shutdown	Inoperable Shutdown(b)
1947	361	38	399	5,336,399	233,083 (c)	
1948	352	38	390	5,825,566	208,686 (c)	
1949	336	39	375	6,230,505	208,490 (c)	
1950	320	47	367	6,222,998	473,302 (c)	
1951	325	32	357	6,701,815	261,829 (c)	
1952	327	23	350	7,161,366	171,519 (c)	
1953	315	28	343	7,481,701	138,019	18,941
1954	308	29	337	7,782,103	201,874	22,920
1955	296	30	326	8,069,154	316,890	34,586
1956	294	24	318	8,380,801	201,835	49,754
1957	298	21	319	8,808,841	262,856	51,977
1958	289	29	318	8,939,907	418,400	49,400
1959	291	22	313	9,450,741	310,705	58,400
1960	290	20	310	9,543,329	299,295	58,800
1961	289	22	311	9,629,685	368,888	11,500
1962	287	24	311	9,812,248	220,799	72,100
1963	287	21	308	9,814,791	196,130	107,400
1964	282	22	304	10,063,164	242,610	79,600
1965	273	27	300	10,161,311	258,540	354,744
1966	267	19	286	10,171,159	222,680	98,900
1967	260	21	281	10,412,447	245,960	101,200
1968	270	21	291	11,172,694	180,710	179,450
1969	264	20	284	11,575,829	126,480	37,200
1970	262	19	281	11,882,393	138,880	53,050
1971	253	26	279	12,658,248	201,980	159,750
1972	250	32	282	13,034,818	257,650	145,000
1973	253	28	281	13,482,909	188,475	132,200
1974	257	27	284	14,220,316	141,220	127,900
1975	262	28	290	14,696,750	263,960	208,100
1976	265	22	287	14,867,529	369,092	190,900
1977	273	18	291	15,861,735	536,637	211,500
1978	290	12	302	16,793,724	254,000	182,223
1979	301	10	311	17,147,875	293,010	103,500
1980	311	8	319	17,612,652	376,469	N.A.
1981	315	9	324	18,051,260	569,260	N.A.
1982	254	47	301	16,103,579	1,786,155	N.A.
1983	233	25	258	14,960,647	1,898,690	N.A.
1984	214	33	247	14,837,685	1,299,456	N.A.
1985	199	24	223	14,360,583	1,298,186	N.A.
1986	192	24	216	14,638,507	820,441	N.A.
1987	195	24	219	14,940,463	625,050	N.A.
1988	195	18	213	15,017,968	897,450	N.A.
1989	193	11	204	15,011,824	643,050	N.A.
1990	194	11	205	15,062,616	509,350	N.A.

See notes and sources at end of table

United States Crude Oil Refining Capacity as of January 1(a)

	Number of Refineries			Crude Oil Throughput Capacity		
Year	Operating	Shutdown(d)	Total	Operating	Operable Shutdown	Inoperable Shutdown(b)
1991	184	18	202	14,958,777	716,850	N.A.

(a) Does not include Puerto Rico refineries.
(b) Facilities inoperable, needing extensive reconditioning
(c) Not identified separately prior to 1953
(d) Figures beginning with 1980 are for operable shutdown only.

SOURCE: 1947-1975: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual
1976-1981: U.S. Energy Information Administration, "Petroleum Refineries in the Unite States and U.S. Territories" Annual
1982-1990: U.S. Energy Information Administration, PEtroleum Supply Annuals

Section VIII
Table 5

Percentage Yields of Refined Petroleum Products from Crude Oil(a) in the United States-Annually 1964-1990

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4	44.1	43.0	44.5
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6	6.6	6.9	7.4
Ethane (including Ethylene)	(b)	(b)	(b)	(b)	(b)	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	(b)
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3	2.3	2.3	2.4
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2	1.0	1.3	1.0
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4	21.4	21.5	19.7
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0	11.3	11.5	11.7
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6	4.1	4.7	5.1
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6	0.7	0.6	0.7
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2	1.3	1.3	1.3
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5	2.5	2.6	2.7
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9	3.2	3.1	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	-	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6	3.7	3.8	4.0
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0	0.9	0.8	0.8
Shortage(c)	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6	-3.4	-3.6	-4.4
TOTAL(d)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See notes and sources at end of table

Section VIII
Table 5a

Percentage Yields of Refined Petroleum Products from Crude Oil(a) in the United States-Annually 1964-1990

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Gasoline	44.8	46.4	47.6	46.7	45.8	45.9	46.6	46.2	45.9	45.8
Jet Fuel	7.6	8.1	8.5	9.1	9.6	9.8	10.0	10.0	10.1	10.7
Ethane (including Ethylene)	0.1	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Liquefied Gases	2.4	2.2	2.7	2.9	3.1	3.2	3.4	3.6	4.0	3.6
Kerosine	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.3
Distillate Fuel Oil	20.5	21.5	20.5	21.5	21.6	21.2	20.5	20.8	20.8	20.9
Residual Fuel Oil	10.4	8.8	7.1	7.1	7.1	6.7	6.6	6.7	6.9	6.8
Petrochemical Feedstocks	4.7	3.6	3.3	2.8	2.8	3.1	2.9	2.4	2.5	2.9
Special Naphthas	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Lubricants	1.3	1.2	1.2	1.3	1.2	1.2	1.3	1.2	1.2	1.2
Wax	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Coke	3.1	3.4	3.5	3.5	3.7	3.8	3.8	4.0	3.9	3.9
Asphalt	2.7	2.7	3.1	3.1	3.2	3.1	3.3	3.2	3.1	3.2
Road Oil	-	-	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
Still Gas	4.3	4.4	4.6	4.5	4.7	4.9	4.8	4.9	4.9	4.8
Miscellaneous	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Shortage(c)	-4.0	-4.4	-4.1	-4.4	-4.5	-4.7	-4.8	-4.8	-4.8	-4.9
TOTAL(d)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Other unfinished oils added to crude oil in computing yield.
(b) Included with liquefied gases
(c) Processing Gain (-) or Loss (+).
(d) Totals may not add due to independent rounding.
(e) Included in asphalt.

SOURCE: 1964-1980–U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990–U.S. Energy Information Administration, Petroleum Supply Annuals.

Section VIII
Table 6

United States Crude Oil Refinery Runs by P.A.D. Distric-Domestic vs Foreign
(Thousands of barrels per day)

	District I		District II		District III		District IV		District V		Total	
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1947	648	265	1,312	-	1,889	2	133	-	826	-	4,808	267
1948	640	326	1,418	-	2,154	13	151	-	895	-	5,258	339
1949	486	374	1,404	-	1,973	46	165	-	876	3	4,904	423
1950	545	459	1,594	-	2,053	23	185	-	880	-	5,257	482
1951	641	477	1,796	1	2,398	10	215	-	947	10	5,997	498
1952	618	517	1,845	3	2,463	12	223	-	958	31	6,107	563
1953	601	552	1,949	7	2,601	8	235	-	975	71	6,361	638
1954	549	585	1,953	7	2,594	12	238	-	970	51	6,304	655
1955	530	633	2,119	18	2,832	30	255	-	968	95	6,704	776
1956	559	669	2,224	54	3,010	32	268	(a)	943	178	7,004	933
1957	640	656	2,219	60	2,898	24	273	(a)	900	249	6,930	989
1958	555	644	2,224	71	2,760	43	266	(a)	892	188	6,697	946
1959	574	641	2,340	59	2,922	27	290	(a)	902	238	7,028	965
1960	550	667	2,349	66	2,978	6	285	(a)	891	275	7,053	1,014
1961	573	650	2,347	86	3,020	6	284	(a)	910	308	7,134	1,050
1962	546	668	2,366	97	3,174	4	303	(a)	898	354	7,287	1,123
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195
1965	489	711	2,533	112	3,506	(a)	317	13	957	405	7,802	1,241
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120
1968	596	707	2,744	214 (b)	4,116	2	339	27	1,243	324	9,038	1,274
1969	560	749	2,773	240 (b)	4,263	(a)	351	35	1,267	391	9,214	1,415
1970	706	584	2,844	310 (b)	4,357	-	345	47	1,297	380	9,549	1,321
1971	649	682	2,853	377 (b)	4,438	54	360	45	1,239	503	9,539	1,661
1972	347	971	2,850	461 (b)	4,741	75	360	37	1,193	661	9,491	2,205
1973	237	1,264	2,774	711 (b)	4,656	398	372	44	1,167	808	9,206	3,225
1974	236	1,173	2,654	679 (b)	4,317	786	376	44	1,098	770	8,681	3,452
1975	166	1,242	2,637	775 (b)	4,078	1,182	380	45	1,086	851	8,347	4,095
1976	170	1,416	2,611	989 (b)	3,957	1,760	391	50	1,038	1,034	8,167	5,249
1977	136	1,538	2,386	1,393	3,886	2,460	426	54	1,199	1,124	8,033	6,569
1978	205	1,513	2,392	1,416	3,802	2,636	433	54	1,660	627	8,492	6,246
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379
1980	221	1,233	2,098	1,198	3,645	2,298	394	47	1,903	445	8,261	5,221
1981 (c)	205	1,126	2,181	785	3,630	1,951	390	33	1,900	300	8,306	4,195
1982	211	982	2,161	621	3,876	1,522	374	41	1,888	191	8,510	3,357
1983	211	827	2,174	570	3,909	1,509	380	44	1,883	227	8,556	3,177
1984	174	936	2,221	536	3,955	1,622	401	32	2,061	214	8,812	3,341
1985	152	767	2,114	590	4,102	1,365	393	41	2,124	194	8,884	2,958
1986	144	1,030	2,073	753	3,848	2,143	370	63	2,273	229	8,707	4,217
1987	117	1,136	2,034	812	3,536	2,480	371	66	2,319	199	8,376	4,693
1988	116	1,184	1,998	918	3,307	2,906	384	67	2,428	209	8,233	5,284
1989	74	1,207	1,869	1,039	2,946	3,430	387	71	2,402	262	7,679	6,010

See notes and sources at end of table

Section VIII
Table 6a

United States Crude Oil Refinery Runs by P.A.D. Distric-Domestic vs Foreign
(Thousands of barrels per day)

Year	District I		District II		District III		District IV		District V		Total	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1990	62	1,227	1,898	1,113	2,773	3,530	388	72	2,415	231	7,536	6,172

(a) Less than 1000 barrels daily
(b) Includes some Athabasca hydrocarbons.
(c) Beginning with 1981, figures are for refinery receipts of crude oil.

SOURCE: 1947-1975 Bureau of Mines, Annual Petroleum Statements
1976-1980 U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual
1981-1982--U.S. Energy Information Administration, Petroleum Supply Annual
1983-1990--U.S. Energy Information Administration, Petroleum Supply Annual, Refinery Capacity

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1988)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Florida	1	0	1	0	17,000	0	20,000	11,390	0	0	0	0	0	0
Georgia	2	1	1	5,655	28,000	6,000	29,000	0	0	0	0	0	0	3,153
New Jersey	6	6	0	434,400	0	456,400	0	244,100	21,500	251,000	37,000	77,500	0	284,500
New York	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	2	1	1	3,000	10,000	3,500	12,000	0	0	0	0	0	0	0
Pennsylvania	8	8	0	727,000	0	759,500	0	319,300	0	259,300	12,300	207,690	51,000	475,020
Virginia	2	2	0	53,400	0	55,550	0	29,000	13,500	27,000	2,000	9,500	0	25,000
West Virginia	2	2	0	16,808	0	17,500	0	9,675	0	0	0	3,750	4,440	0
PAD District 1 Total	25	22	3	1,422,113	55,000	1,493,450	61,000	735,465	81,000	602,300	56,300	354,440	74,440	897,673
Illinois	7	7	0	854,700	75,000	898,600	80,000	337,600	120,700	339,000	7,400	280,300	66,500	548,100
Indiana	5	4	1	422,900	1,000	437,100	2,000	204,200	27,500	166,000	6,000	94,500	0	232,800
Kansas	8	6	2	322,400	30,400	339,483	32,000	119,650	53,000	124,500	10,000	99,300	3,190	188,300
Kentucky	3	2	1	218,900	600	226,300	1,000	92,000	57,600	100,000	0	53,500	0	170,300
Michigan	3	3	0	113,500	0	120,000	0	38,500	0	45,000	1,000	36,500	0	55,300
Minnesota	2	2	0	222,143	0	237,220	0	137,000	54,000	78,000	1,000	61,500	0	209,700
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	17,000
Ohio	4	4	0	488,100	0	507,000	0	185,000	31,200	177,000	25,300	161,600	87,000	190,000
Oklahoma	6	6	0	381,500	0	398,700	0	129,000	27,000	131,000	6,400	90,000	5,000	170,000
Tennessee	1	1	0	60,000	0	65,000	0	10,000	0	30,000	0	10,000	0	33,500
Wisconsin	1	1	0	32,000	0	34,000	0	20,500	0	9,700	1,000	8,000	0	14,800
PAD District II Total	41	37	4	3,174,143	107,000	3,323,403	115,000	1,273,450	371,000	1,226,200	63,300	907,300	161,690	1,829,800
Alabama	6	6	0	180,600	0	187,300	0	50,000	12,000	0	0	32,000	0	63,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	9,000	0	18,500
Louisiana	23	20	3	2,262,207	359,000	2,358,900	414,875	1,157,700	563,500	923,800	35,800	520,500	149,000	1,164,400
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	72,000	9,000	95,800	68,000	253,800
New Mexico	4	4	0	75,600	0	84,607	0	13,900	0	27,100	6,100	19,200	0	29,200
Texas	36	32	4	3,902,900	236,100	4,170,400	247,000	1,843,700	377,900	1,602,500	135,200	1,134,200	276,000	3,082,450
PAD District III Total	78	71	7	6,841,107	602,100	7,245,107	669,875	3,362,550	1,023,900	2,643,900	186,875	1,810,700	493,000	4,611,650
Colorado	2	2	0	76,500	0	80,000	0	23,000	0	23,500	1,000	17,500	0	27,500
Montana	5	4	1	130,450	13,400	135,000	14,000	53,250	9,900	52,100	6,600	37,800	4,900	121,400
Utah	6	6	0	154,500	0	160,000	0	45,380	8,500	54,800	10,600	28,550	2,000	39,250
Wyoming	6	5	1	164,555	350	170,300	400	75,000	9,000	62,000	12,200	32,250	0	48,800
PAD District IV Total	19	17	2	526,005	13,750	545,300	14,400	196,630	27,400	192,400	30,400	116,100	6,900	236,950
Alaska	6	6	0	222,700	0	238,260	0	6,000	0	0	0	12,000	9,000	0
California	33	31	2	2,259,600	119,600	2,395,509	132,800	1,329,150	496,000	637,150	22,050	558,950	389,100	1,387,430
Hawaii	2	2	0	115,900	0	118,000	0	58,000	13,000	22,000	3,000	12,000	15,900	15,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	451,900	0	470,754	0	218,500	68,000	100,000	19,500	119,800	52,000	190,800
PAD District V Total	50	48	2	3,054,600	119,600	3,227,223	132,800	1,630,150	577,000	759,150	44,550	702,750	466,000	1,593,730
United States Total	213	195	18	15,017,968	897,450	15,834,483	993,075	7,198,245	2,080,300	5,423,950	381,425	3,891,290	1,202,030	9,169,803

See notes and sources at end of table

Section VIII
Table 7a

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1989)

	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day								
District and State	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle	Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Georgia	2	1	1	5,079	28,000	6,000	29,000	0	0	0	0	0	0	3,000
New Jersey	6	6	0	400,000	0	434,000	0	244,100	21,500	251,000	37,000	77,500	17,000	284,500
New York	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	2	1	1	3,000	10,000	3,500	12,000	0	0	0	0	0	0	0
Pennsylvania	8	8	0	734,315	0	770,500	0	319,300	0	238,300	6,800	208,400	51,000	479,620
Virginia	2	2	0	54,700	0	57,000	0	29,000	13,500	27,000	2,000	9,750	0	25,250
West Virginia	2	2	0	16,808	0	17,500	0	8,175	0	0	0	5,300	0	0
PAD District 1 Total	24	22	2	1,395,752	38,000	1,483,500	41,000	722,575	81,000	581,300	50,800	356,950	87,000	902,370
Illinois	6	6	0	889,200	0	942,000	0	349,400	124,900	343,000	12,000	292,300	67,500	588,100
Indiana	5	4	1	428,900	1,500	441,600	2,500	233,200	28,500	167,000	6,000	99,500	0	233,700
Kansas	8	8	0	349,300	0	370,483	0	124,650	53,000	124,500	9,000	97,500	3,190	215,500
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	53,500	0	182,300
Michigan	3	3	0	113,500	0	121,000	0	38,000	0	45,000	1,000	33,000	0	60,300
Minnesota	2	2	0	247,100	0	264,220	0	167,000	54,000	78,000	1,000	55,500	0	221,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	16,600
Ohio	4	4	0	484,600	0	507,000	0	185,000	30,700	176,000	17,500	161,600	87,200	194,500
Oklahoma	6	6	0	381,500	0	399,200	0	142,000	27,000	132,500	6,400	91,100	4,500	158,000
Tennessee	1	1	0	58,000	0	60,000	0	12,000	0	30,000	0	10,000	0	35,000
Wisconsin	1	1	0	32,000	0	34,000	0	20,500	0	12,600	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,261,000	1,500	3,425,803	2,500	1,363,750	375,700	1,234,600	59,100	914,100	162,390	1,919,800
Alabama	5	4	1	144,100	9,500	149,300	10,000	50,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	9,000	0	18,500
Louisiana	22	20	2	2,286,147	341,000	2,396,900	394,500	1,144,700	545,500	846,800	12,300	524,200	149,000	1,246,275
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	72,000	9,000	96,000	68,000	254,000
New Mexico	4	4	0	75,600	0	84,607	0	13,900	0	27,100	6,100	19,200	0	29,200
Texas	34	32	2	3,896,950	182,050	4,133,500	192,800	1,777,700	373,800	1,583,500	128,300	1,143,500	296,000	3,103,150
PAD District III Total	74	69	5	6,822,597	539,550	7,208,207	605,300	3,283,550	1,001,800	2,547,900	156,475	1,817,900	513,000	4,710,425
Colorado	3	2	1	72,000	15,200	76,000	16,000	33,000	4,200	23,500	1,000	19,900	5,000	29,900
Montana	4	4	0	130,650	7,800	135,200	8,000	53,350	7,700	52,170	6,620	35,530	4,900	118,270
Utah	6	6	0	154,500	0	160,000	0	45,500	8,500	49,400	9,600	28,550	0	39,250
Wyoming	5	5	0	169,725	0	175,750	0	75,000	9,000	62,000	12,200	32,250	0	48,800
PAD District IV Total	18	17	1	526,875	23,000	546,950	24,000	206,850	29,400	187,070	29,420	116,230	9,900	236,220
Alaska	6	6	0	215,000	0	232,460	0	6,000	0	0	0	12,000	9,000	0
California	32	31	1	2,206,200	29,100	2,347,689	32,120	1,347,000	502,000	648,950	14,050	559,900	388,500	1,463,280
Hawaii	2	2	0	126,500	0	130,000	0	58,000	13,000	22,000	3,000	12,000	15,900	3,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	6	1	453,400	11,900	471,000	12,754	219,000	70,000	102,500	13,000	121,800	52,000	204,300
PAD District V Total	49	47	2	3,005,600	41,000	3,185,849	44,874	1,648,500	585,000	773,450	30,050	705,700	465,400	1,671,080
United States Total	204	193	11	15,011,824	643,050	15,850,309	717,674	7,225,225	2,072,900	5,324,320	325,845	3,910,880	1,237,690	9,439,895

See notes and sources at end of table

Section VIII
Table 7b

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1990)

	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
District and State	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Georgia	2	1	1	5,079	28,000	6,000	30,000	0	0	0	0	0	0	3,000
New Jersey	6	6	0	458,900	0	481,400	0	257,100	21,500	256,000	37,000	77,500	17,000	284,500
New York	1	1	0	41,850	0	45,000	0	28,000	0	0	0	0	0	0
North Carolina	1	1	0	3,000	0	3,000	0	0	0	0	0	0	0	0
Pennsylvania	8	8	0	739,315	0	770,500	0	319,300	0	238,000	6,800	208,400	51,000	474,620
Virginia	2	2	0	56,700	0	60,000	0	29,000	13,500	27,500	2,000	10,200	0	26,500
West Virginia	2	2	0	31,700	0	32,500	0	8,600	0	0	0	5,300	4,400	4,000
PAD District 1 Total	23	22	1	1,476,544	28,000	1,548,400	30,000	737,000	81,000	586,500	50,800	357,400	91,400	902,620
Illinois	6	6	0	882,600	0	937,000	0	349,400	126,100	343,000	10,000	288,300	67,500	582,600
Indiana	5	4	1	429,900	1,250	443,100	2,500	232,050	27,500	166,121	4,200	98,348	0	255,100
Kansas	8	8	0	351,700	0	373,483	0	124,650	52,500	123,800	9,000	93,800	3,190	211,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	53,500	0	182,300
Michigan	3	3	0	117,100	0	129,000	0	38,000	0	47,000	1,000	33,000	0	65,800
Minnesota	2	2	0	252,100	0	264,220	0	167,000	60,000	78,000	1,000	55,500	0	221,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	16,600
Ohio	4	4	0	484,600	0	507,000	0	185,000	30,700	176,000	17,500	161,600	87,200	194,500
Oklahoma	6	6	0	387,500	0	410,200	0	147,000	27,000	140,500	6,400	94,600	5,000	168,500
Tennessee	1	1	0	60,000	0	62,000	0	12,000	0	30,000	0	10,000	0	35,000
Wisconsin	1	1	0	33,000	0	35,000	0	20,500	0	12,600	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,275,400	1,250	3,447,303	2,500	1,367,600	381,400	1,243,021	55,300	908,748	162,890	1,947,200
Alabama	4	3	1	140,100	9,500	144,300	10,000	50,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	11,200	0	28,500
Louisiana	22	19	3	2,241,847	349,000	2,367,400	408,500	1,152,200	580,700	891,800	11,500	536,100	157,000	1,216,975
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	74,000	7,000	96,000	68,000	254,000
New Mexico	4	4	0	77,800	0	84,207	0	13,900	0	27,700	6,100	21,050	1,000	29,800
Texas	36	34	2	3,856,100	62,250	4,093,300	79,100	1,733,200	367,000	1,613,500	125,500	1,130,700	312,500	3,165,750
PAD District III Total	75	69	6	6,735,647	427,750	7,133,107	505,600	3,246,550	1,030,200	2,625,500	150,875	1,821,050	538,500	4,754,325
Colorado	3	2	1	76,000	15,200	85,000	16,000	43,000	4,200	25,500	1,000	22,400	5,000	34,200
Montana	4	4	0	139,650	0	145,500	0	53,300	7,700	55,170	6,225	37,680	4,900	119,240
Utah	6	6	0	154,500	0	160,000	0	46,980	8,500	54,800	10,600	30,500	2,400	41,200
Wyoming	5	5	0	169,725	0	175,750	0	76,000	9,000	62,000	12,200	32,250	0	52,300
PAD District IV Total	18	17	1	539,875	15,200	566,250	16,000	219,280	29,400	197,470	30,025	122,830	12,300	246,940
Alaska	6	6	0	229,850	0	241,700	0	6,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	9,600	0	10,000	0	3,000	0	0	0	0	0	0
California	32	30	2	2,169,000	37,150	2,304,200	39,600	1,315,600	501,200	652,900	14,000	535,700	398,500	1,460,040
Hawaii	2	2	0	131,500	0	135,000	0	71,250	13,000	20,000	3,000	12,000	15,000	15,800
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	490,700	0	522,254	0	260,500	72,000	115,500	10,000	126,500	54,000	210,000
PAD District V Total	50	48	2	3,035,150	37,150	3,217,854	39,600	1,674,850	586,200	788,400	27,000	686,200	476,500	1,685,840
United States Total	205	194	11	15,062,616	509,350	15,912,914	593,700	7,245,280	2,108,200	5,440,891	314,000	3,896,228	1,281,590	9,536,925

See notes and sources at end of table

Section VIII
Table 7c

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1991)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	152,000	0	95,000	45,000	67,000	5,000	54,000	18,000	123,000
Georgia	2	1	1	5,540	28,000	6,000	30,000	0	0	0	0	0	0	2,940
New Jersey	6	4	2	334,500	124,400	352,000	132,400	258,900	21,000	256,000	37,000	77,500	17,000	289,000
New York	1	1	0	41,850	0	45,000	0	28,000	0	0	0	0	0	0
North Carolina	1	1	0	3,000	0	3,000	0	0	0	0	0	0	0	0
Pennsylvania	8	8	0	744,315	0	772,500	0	320,250	0	247,000	6,800	200,400	51,000	471,820
Virginia	2	2	0	56,700	0	60,000	0	29,000	14,000	27,500	2,000	10,200	0	26,500
West Virginia	1	1	0	12,500	0	12,500	0	6,000	0	0	0	3,700	4,440	4,000
PAD District 1 Total	22	19	3	1,338,405	152,400	1,403,000	162,400	737,150	80,000	597,500	50,800	345,800	90,440	917,260
Illinois	7	7	0	937,600	0	994,000	0	383,900	126,300	378,000	10,000	302,300	67,500	617,600
Indiana	5	4	1	429,900	1,250	443,100	2,500	235,450	28,000	173,000	4,200	99,800	0	267,800
Kansas	8	8	0	351,700	0	374,483	0	124,650	52,500	123,800	9,000	93,800	3,190	211,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	46,000	0	172,300
Michigan	3	3	0	118,600	0	129,000	0	38,000	0	47,000	1,000	33,000	0	61,800
Minnesota	2	2	0	267,100	0	279,220	0	182,000	60,000	83,000	1,000	59,500	0	227,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	3,600	12,100	0	19,100
Ohio	4	4	0	457,100	0	477,000	0	172,000	31,700	174,000	17,500	162,600	87,200	196,500
Oklahoma	6	6	0	395,500	0	416,200	0	147,000	26,500	149,000	5,000	101,500	5,000	177,500
Tennessee	1	1	0	60,000	0	62,000	0	12,000	0	30,000	0	10,000	0	30,000
Wisconsin	1	1	0	33,200	0	35,000	0	20,500	0	11,000	1,000	8,000	0	14,800
PAD District II Total	40	39	1	3,327,600	1,250	3,496,303	2,500	1,407,500	382,600	1,294,800	52,300	928,600	162,890	1,995,400
Alabama	3	2	1	113,500	26,600	116,300	28,000	45,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	53,900	5,800	57,000	6,000	23,300	0	19,100	775	11,200	0	30,000
Louisiana	22	19	3	2,286,707	340,500	2,388,900	395,000	1,132,200	580,700	895,500	11,500	530,300	172,000	1,267,500
Mississippi	6	5	1	362,400	6,000	383,000	7,900	274,775	83,500	80,000	7,000	96,000	68,000	254,000
New Mexico	4	3	1	74,800	4,000	79,107	6,100	13,900	0	33,800	4,500	21,050	1,000	29,800
Texas	34	32	2	3,875,500	57,250	4,097,000	64,500	1,718,900	373,800	1,642,500	125,500	1,147,600	313,500	3,176,650
PAD District III Total	72	64	8	6,766,807	440,150	7,121,307	507,500	3,208,075	1,050,000	2,670,900	149,275	1,832,150	554,500	4,817,250
Colorado	3	2	1	76,000	15,200	85,000	16,000	43,000	4,200	27,500	1,000	22,900	5,000	35,700
Montana	4	4	0	139,650	0	145,500	0	53,450	7,700	55,900	6,250	37,730	4,900	119,340
Utah	6	6	0	154,500	0	160,000	0	46,980	8,500	54,800	10,600	30,500	2,400	41,200
Wyoming	5	5	0	169,725	0	175,750	0	73,000	9,000	62,000	12,500	32,350	0	52,500
PAD District IV Total	18	17	1	539,875	15,200	566,250	16,000	216,430	29,400	200,200	30,350	123,480	12,300	248,740
Alaska	6	6	0	239,540	0	254,700	0	6,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	10,000	0	12,000	0	7,000	0	0	0	0	0	0
California	32	29	3	2,094,150	91,450	2,217,400	98,700	1,347,600	530,900	656,700	14,000	542,300	408,800	1,475,180
Hawaii	2	2	0	146,300	0	150,000	0	74,250	13,000	20,000	0	13,000	18,000	3,500
Nevada	1	0	1	0	4,500	0	4,700	0	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	6	1	496,100	11,900	531,000	12,754	255,500	72,000	118,500	7,000	128,500	52,000	219,000
PAD District V Total	50	45	5	2,986,090	107,850	3,165,100	116,154	1,706,350	615,900	795,200	21,000	695,800	487,800	1,697,680
United States Total	202	184	18	14,958,777	716,850	15,751,960	804,554	7,275,505	2,157,900	5,558,600	303,725	3,925,830	1,307,930	9,676,330

See notes and sources at end of table

Number and Capacity of United States Petroleum Refineries

(a) Refineries where distillation units are completely idle but not permanently shutdown on January 1

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1987)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,759,700	602,600	76,100	370,300	345,100	150,800	23,200	704,950
Caribbean	8	1,392,300	580,300	125,000	79,000	183,340	15,000	244,500	496,950
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	–	–	121,500
Puerto Rico	2	121,000	59,300	--	12,000	5,800	15,000	10,000	15,700
Trinidad	2	300,000	171,000	18,000	25,000	31,000	–	104,500	41,800
Virgin Islands	1	600,000	190,000	40,000	–	125,000	–	130,000	290,000
Latin America	70	5,524,740	2,333,710	454,400	1,043,320	264,218	41,900	275,600	819,993
Brazil	13	1,321,100	685,200	41,100	321,900	21,600	–	–	132,700
Mexico	9	1,349,000	600,700	82,000	267,000	137,800	18,000	–	486,000
Venezuela	7	1,224,700	551,500	122,000	179,400	6,000	–	275,600	–
Europe	129	14,653,338	3,864,287	1,632,290	1,577,200	2,087,115	259,500	1,911,370	4,415,126
France	15	1,834,050	427,650	167,400	252,300	239,300	13,500	277,900	504,400
Germany (West)	19	1,719,800	537,300	269,400	186,200	317,000	96,200	326,700	690,950
Italy	21	2,678,700	708,700	345,130	276,000	296,600	55,000	298,600	591,400
Netherlands	7	1,400,800	253,370	148,710	125,500	150,400	30,000	183,200	511,820
Spain	10	1,305,000	291,800	124,000	92,500	187,100	15,000	156,100	284,000
United Kingdom	15	1,779,700	625,090	166,000	345,500	367,500	19,000	131,600	770,590
Middle East	37	3,862,622	960,446	236,999	107,660	399,568	386,810	602,552	557,351
Iran	4	530,000	215,200	80,800	–	63,845	93,180	3,120	34,225
Kuwait	4	618,000	217,000	--	30,000	51,000	159,000	337,000	36,000
Saudi Arabia	6	1,125,000	67,655	26,000	10,000	86,900	68,100	39,000	207,000
Asia-Pacific	106	10,400,180	2,618,577	471,043	868,908	1,093,230	226,630	1,812,430	3,153,680
India	12	991,070	331,007	104,730	129,408	26,690	6,500	13,800	71,820
Japan	46	4,790,050	1,532,940	80,520	502,750	561,420	50,950	1,497,500	1,943,910
Korea	6	862,000	35,500	30,000	–	63,200	7,000	21,000	95,000
Singapore	5	961,000	170,500	133,000	–	50,600	44,200	76,700	288,400
Africa	45	2,523,563	390,617	83,170	131,100	283,777	34,000	105,100	470,904
Algeria	4	464,700	15,000	–	–	55,600	–	–	23,600
Egypt	7	452,110	46,725	16,470	–	30,940	--	–	84,386
Libya	3	329,400	3,432	–	–	14,582	--	–	37,226
South Africa	5	388,500	177,000	59,500	81,400	57,800	18,000	66,300	125,150
TOTAL	422	40,116,443	11,350,537	3,079,002	4,177,488	4,656,348	1,114,640	4,974,752	10,618,954

See notes and sources at end of table

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1988)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,868,900	654,650	78,150	385,550	368,650	189,550	23,900	755,580
Caribbean	11	1,387,800	605,300	165,000	79,000	195,650	15,000	244,500	518,150
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	–	–	121,500
Puerto Rico	2	123,000	59,300	–	12,000	5,800	15,000	10,000	15,700
Trinidad	2	300,000	171,000	18,000	25,000	31,000	–	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	–	125,000	–	130,000	290,000
Latin America	65	5,600,048	2,428,735	484,700	1,093,355	281,218	41,900	546,100	523,553
Brazil	13	1,407,300	698,000	33,800	350,500	24,800	–	–	133,400
Mexico	9	1,354,000	600,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,600	138,000	193,100	6,000	–	296,100	–
Europe	125	14,956,230	4,873,029	1,785,630	1,763,450	2,147,632	261,500	1,969,647	4,500,407
France	14	1,940,600	678,600	163,550	288,800	258,700	13,500	262,300	552,400
Germany (West)	16	1,647,800	619,800	286,400	174,700	307,100	96,200	326,700	652,150
Italy	19	1,563,100	723,200	388,400	277,400	289,600	55,000	301,900	596,700
Netherlands	7	1,381,000	401,370	151,560	125,500	157,400	30,000	148,200	522,400
Spain	10	1,305,000	374,800	178,000	143,500	189,100	15,000	190,500	283,000
United Kingdom	15	1,802,700	806,090	152,000	392,000	367,500	21,000	115,600	776,590
Middle East	37	4,146,222	1,167,746	237,999	173,660	467,796	386,510	603,652	676,693
Iran	4	530,000	215,200	80,800	–	63,845	93,180	3,120	34,225
Kuwait	4	628,000	217,000	–	30,000	51,000	159,000	338,100	36,000
Saudi Arabia	7	1,375,000	271,655	27,000	76,000	178,900	65,100	39,000	314,000
Asia-Pacific	102	10,274,302	3,017,840	495,700	945,370	1,073,240	246,250	1,752,330	3,218,140
India	12	1,058,742	327,570	113,900	133,470	26,690	–	13,800	77,890
Japan	43	4,566,850	1,675,940	82,800	557,150	533,940	50,950	1,393,200	2,083,660
Korea	5	820,000	33,400	30,000	–	59,450	7,000	21,000	92,800
Singapore	5	858,000	256,100	137,700	–	54,300	48,100	83,600	235,400
Africa	43	2,630,250	344,037	87,170	142,040	303,582	31,500	101,600	568,512
Algeria	4	464,700	15,000	–	–	55,600	–	–	23,600
Egypt	7	452,110	46,725	16,470	–	30,940	–	–	84,386
Libya	3	329,400	3,432	–	–	14,582	–	–	37,226
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	410	40,862,752	13,091,337	3,334,349	4,582,425	4,857,768	1,172,210	5,241,729	10,761,035

See notes and sources at end of table

Section VIII
Table 8b

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1989)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,855,800	657,850	88,250	387,600	369,600	206,350	51,000	771,600
Caribbean	10	1,385,000	605,200	165,000	82,000	194,950	15,000	246,500	502,700
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	–	121,500
Puerto Rico	2	123,000	59,300	--	12,000	5,800	15,000	12,000	–
Trinidad	2	300,000	171,000	18,000	28,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	–	125,000	--	130,000	290,000
Latin America	67	5,598,438	2,427,796	490,600	1,105,710	287,560	41,900	546,100	529,419
Brazil	13	1,407,300	698,000	33,800	350,500	24,800	--	–	133,400
Mexico	9	1,354,000	600,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,000	138,000	193,100	6,000	--	296,100	–
Europe	124	14,687,759	4,750,895	1,737,730	1,867,978	2,045,389	274,000	1,958,866	4,460,292
France	14	1,875,970	684,500	152,850	319,200	247,000	13,500	264,900	523,000
Germany (West)	15	1,518,200	608,700	289,500	179,400	275,100	96,200	296,400	624,200
Italy	19	2,450,200	590,100	360,400	278,300	284,300	59,000	337,100	579,200
Netherlands	7	1,380,700	399,370	154,360	125,500	166,000	30,000	148,200	522,620
Spain	10	1,285,000	388,800	173,000	164,000	171,600	15,000	192,100	278,900
United Kingdom	15	1,803,100	806,840	152,000	442,000	307,500	21,000	115,600	776,590
Middle East	37	4,334,676	1,309,981	293,184	188,660	471,142	403,080	471,896	947,725
Iran	4	530,000	215,200	80,800	–	63,845	93,180	3,120	34,225
Kuwait	4	817,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	7	1,375,000	280,655	32,000	76,000	180,900	70,100	40,000	340,000
Asia-Pacific	102	10,064,786	3,005,841	506,490	987,503	1,096,190	324,450	1,756,360	3,010,560
India	12	1,051,441	332,996	110,670	133,953	26,030	6,000	13,800	77,630
Japan	41	4,362,750	698,940	82,800	596,950	531,650	101,750	1,370,280	1,973,740
Korea	6	880,000	67,000	49,000	–	62,000	29,000	21,000	110,806
Singapore	5	852,000	256,000	137,700	–	58,000	48,100	80,600	243,400
Africa	44	2,786,987	397,217	94,170	174,000	331,182	31,500	105,700	551,248
Algeria	4	464,700	15,000	--	–	55,600	--	–	23,600
Egypt	8	489,203	46,725	16,470	–	30,940	--	–	84,386
Libya	3	329,400	3,432	--	–	13,982	--	–	37,126
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	411	40,713,446	13,154,780	3,375,424	4,793,451	4,796,013	1,296,280	5,136,422	10,773,544

See notes and sources at end of table

Section VIII
Table 8c

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1990)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,851,800	642,950	88,250	387,470	372,450	206,350	51,000	735,060
Caribbean	11	1,385,700	613,900	165,000	83,500	212,740	15,000	234,500	552,500
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	–	121,500
Puerto Rico	2	123,000	68,000	--	13,500	26,500	15,000	–	47,800
Trinidad	2	300,000	171,000	18,000	28,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	–	125,000	--	130,000	290,000
Latin America	68	5,768,236	2,543,401	491,126	1,088,410	282,980	41,900	546,100	529,969
Brazil	13	1,397,100	749,100	38,300	331,100	21,000	--	–	135,250
Mexico	9	1,514,000	680,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,600	138,000	193,100	6,000	--	296,100	–
		16,241,043							
Europe	145	14,938,489	4,867,981	1,807,818	2,059,683	2,043,048	309,000	2,044,970	4,443,806
France	14	1,819,900	684,500	152,850	325,500	247,400	13,500	269,900	514,600
Germany (West)	16	1,507,200	660,700	283,262	182,700	283,300	108,200	435,500	503,400
Italy	21	2,803,600	687,400	412,900	305,700	334,850	59,000	336,300	675,900
Netherlands	7	1,380,700	404,400	155,060	125,500	178,600	52,000	148,200	545,900
Spain	10	1,293,000	399,000	174,000	173,300	172,000	15,000	156,100	333,600
United Kingdom	15	1,253,200	560,590	131,000	321,500	205,400	22,000	41,000	620,390
Middle East	37	4,681,236	1,608,957	296,684	198,900	529,600	411,080	554,723	1,084,460
Iran	4	530,000	215,200	80,800	–	63,845	93,180	3,120	34,225
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	7	1,007,000	416,655	34,000	82,400	167,600	78,100	62,900	353,100
Asia-Pacific	102	10,010,867	3,009,395	553,920	1,023,445	1,091,905	372,990	1,664,620	3,098,069
India	12	1,079,842	334,200	110,670	136,370	26,230	--	13,800	71,231
Japan	41	4,198,450	1,654,140	85,800	617,225	531,800	152,750	1,279,040	1,964,315
Korea	6	867,000	83,400	48,700	--	62,450	29,000	21,000	110,800
Singapore	5	830,000	258,000	170,500	--	61,300	49,000	80,600	251,600
Africa	44	2,777,875	386,847	87,170	172,700	325,132	34,200	103,600	601,723
Algeria	4	464,700	15,000	--	–	55,600	--	–	23,600
Egypt	8	489,203	46,725	16,470	–	30,940	--	–	84,386
Libya	3	329,400	3,432	--	–	14,182	--	–	37,226
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	435	41,414,203	13,673,431	3,489,968	5,014,108	4,857,855	1,390,520	5,199,513	11,045,587

See notes and sources at end of table

Section VIII
Table 8d

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1991)

Area/ Country	Number of Plants	Crude Capacity	Vacuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,882,060	674,945	88,978	387,870	367,060	204,803	47,300	744,745
Caribbean	11	1,333,200	572,900	215,000	80,000	195,240	15,600	134,000	558,700
Netherland Antilles	1	320,000	158,000	127,000	42,000	15,000	--	–	125,000
Puerto Rico	2	125,000	68,000	–	12,000	25,500	15,600	–	46,700
Trinidad	2	246,000	130,000	8,000	26,000	14,400	--	4,000	46,100
Virgin Islands	1	545,000	215,000	80,000	–	125,000	--	130,000	290,000
Latin America	68	5,940,675	2,636,567	530,665	1,067,455	282,850	41,900	551,500	547,599
Brazil	13	1,411,520	725,985	39,765	316,585	23,610	--	–	155,860
Mexico	9	1,679,000	760,700	82,000	267,000	157,800	18,000	253,000	206,000
Venezuela	6	1,167,000	548,370	134,100	139,000	6,000	--	277,700	700
Europe	140	15,438,461	5,648,417	1,889,365	2,093,660	2,330,765	429,040	2,027,206	4,750,471
France	14	1,815,630	729,910	172,990	349,480	246,760	13,440	267,040	614,540
Germany (West)	20	2,065,400	998,100	386,962	240,250	376,500	168,200	541,200	696,110
Italy	21	2,385,358	828,968	390,450	306,300	315,050	59,000	327,300	630,200
Netherlands	7	1,196,700	423,400	160,060	128,000	182,600	53,000	164,000	467,100
Spain	10	1,321,000	393,200	179,500	157,300	191,000	15,000	75,000	210,100
United Kingdom	15	1,866,940	843,990	146,000	444,500	366,300	54,000	115,600	846,090
Middle East	39	5,020,826	1,516,620	335,685	202,201	527,069	409,080	546,907	1,130,238
Iran	5	720,000	284,840	92,500	–	105,397	93,180	20,550	105,400
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	8	1,862,500	425,555	71,900	87,541	183,922	76,100	44,650	478,300
Asia-Pacific	102	10,360,985	3,166,095	565,668	1,060,445	1,168,763	354,670	1,667,280	3,354,826
India	12	1,122,360	365,000	114,875	136,970	28,233	--	–	99,133
Japan	41	4,383,400	1,721,365	76,900	629,975	607,970	113,350	1,321,940	2,097,325
Korea	6	867,000	83,400	48,700	–	62,450	29,000	21,000	110,800
Singapore	5	878,000	271,200	190,700	–	63,600	71,000	91,600	261,600
Africa	44	2,871,583	376,757	102,670	172,700	333,981	36,200	119,200	548,237
Algeria	4	464,700	15,000	--	–	55,600	--	–	23,600
Egypt	8	523,153	47,000	16,470	–	33,540	--	15,000	76,878
Libya	3	347,600	3,432	--	–	13,882	--	–	36,826
South Africa	4	430,500	102,000	72,000	84,400	62,600	20,000	77,300	141,850
TOTAL	432	42,847,790	14,592,301	3,728,031	5,064,331	5,205,728	1,491,293	5,093,393	11,634,816

(a) Excluding the United States.

SOURCE: Oil and Gas Journal, "Worldwide Report" issues

Section VIII
Table 9

Nelson Refinery Operating Cost Indexes
(1956 = 100)

Year	Fuel and Power Cost	Wage Rate	Productivity of labor	Labor Cost	Investment Related	Chemicals and Catalyst	Nelson Operating Indexes Refineries	Nelson Operating Indexes Processes
1956	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1957	115.1	104.1	98.1	106.1	105.4	102.2	106.7	107.7
1958	102.1	105.4	100.3	105.0	109.5	104.4	105.8	105.8
1959	103.5	111.5	109.0	102.3	113.7	107.8	106.8	106.0
1960	109.9	113.0	112.9	100.3	116.9	114.3	108.8	107.2
1961	106.7	119.2	122.3	97.5	119.2	103.2	106.7	106.4
1962	100.9	123.9	131.8	93.9	121.7	96.7	103.7	103.6
1963	104.4	129.1	142.7	90.5	115.2	95.6	100.8	100.6
1964	102.8	132.8	149.1	89.1	114.5	99.0	100.2	100.5
1965	106.1	138.8	157.2	88.3	116.0	119.3	104.6	106.2
1966	105.6	145.4	165.9	87.7	103.2	130.9	102.8	100.3
1967	104.7	152.4	165.1	92.3	103.6	128.6	104.1	101.2
1968	103.8	158.0	173.1	91.8	103.6	124.3	103.5	101.3
1969	107.1	171.3	187.6	91.3	104.3	125.9	104.3	102.5
1970	129.2	183.1	179.9	101.8	115.7	127.4	113.9	117.6
1971	166.4	194.9	185.6	105.0	115.7	120.1	117.4	133.3
1972	166.8	210.0	197.0	107.1	162.3	112.2	118.5	147.0
1973	186.8	221.2	214.9	102.9	193.0	117.3	125.7	168.0
1974	310.5	243.9	201.5	121.1	215.8	153.2	159.7	222.5
1975	376.8	273.9	206.0	133.0	246.5	186.7	189.3	258.5
1976	384.5	314.3	216.2	145.5	252.6	195.2	209.3	267.1
1977	430.5	346.2	231.4	149.6	263.6	184.4	228.2	287.8
1978	422.4	388.6	229.4	169.6	280.7	191.8	243.2	297.0
1979	605.7	424.8	222.5	191.1	300.2	216.6	278.3	374.4
1980	810.5	439.9	226.3	200.6	325.2	229.2	312.7	457.5
1981	1016.0	512.8	188.8	271.9	357.2	237.7	373.3	562.2
1982	931.9	574.7	178.6	321.8	384.1	234.1	396.6	557.2
1983	913.8	621.9	186.7	334.5	415.3	231.3	412.9	565.5
1984	968.3	629.9	204.5	308.0	436.6	233.4	417.4	584.2
1985	878.9	642.3	219.7	293.4	445.8	222.9	406.8	551.7
1986	548.8	651.8	253.8	259.4	460.0	206.7	369.0	430.8
1987	554.1	663.2	261.8	253.5	473.2	192.8	371.8	435.6
1988	445.2	689.8	264.6	260.8	489.3	213.9	373.7	405.3
1989	503.0	709.3	275.9	257.4	502.5	230.4	384.9	429.1
1990	558.1	753.7	279.2	270.5	512.9	233.6	399.7	456.0

SOURCE: Oil and Gas Journal.

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District I					
American Refining Group, Inc.	Indianaola, Pa.	180	03/84	12/85	3
Amoco Oil Co.	Baltimore, Md.	15,000	01/82	03/82	25+
Ashland Oil Inc.	Buffalo, N.Y.	64,000	07/82	12/84	36+
Ashland Oil Inc.	Freedom, Pa.	6,800	04/85	12/85	37+
ATC Petroleum Inc.	Newington, N.H.	13,400	07/81	12/81	7
Chevron U.S.A. Inc.	Baltimore, Md.	14,200	12/86	12/86	38
City Gas and Transmission Corp.	Wilmington, N.C.	10,000	05/81	12/89	11
Elk Refining Co. (division of Pennzoil Co. Inc.)	Falling Rock, W.Va.	5,600	12/82	12/82	25+
Manatee Energy Co.	Port Manatee, Fl.	28,400	05/81	10/81	2
Mobil Oil Corp.	Buffalo, N.Y.	43,000	05/81	07/81	25+
Phoenix Refg. Co.	St. Mary's, W.V.	19,200	11/90	01/91	
Quaker State Oil Refining Corp.	Emlenton, Pa.	0	12/83	12/83	25+
Seminole Refining Corp.	St. Marks, Fl.	17,000	05/87	03/88	28
Virginia Oil & Refining Co.,Inc.	Jonesville, Va.	1,000	08/87	12/87	2
TOTAL PAD I		237,780			
PAD District II					
Allied Materials Corp.	Stroud, Ok.	7,600	12/84	02/85	37+
Amoco Oil Co.	Sugar Creek, Mo.	104,000	05/82	06/82	25+
Amoco Oil Co.	Wood River, Il.	104,000	05/81	10/81	25+
Ashland Oil Inc.	Findlay, Oh.	20,400	02/82	12/84	36+
Ashland Oil Inc.	Louisville, Ky.	25,200	04/82	12/84	36+
B-T Energy Corp.	Louisville, Ky.	3,000	11/84	11/85	3
Champlin Petroleum Co.	Enid, Ok.	53,800	06/83	12/83	25+
Chevron U.S.A. Inc.	Cincinnati, Oh.	43,700	05/86	08/86	38+
Conoco Inc.	Wrenshall, Mn.	23,500	05/81	09/81	5
CRA, Inc.	Scottsbluff, Nb.	5,600	05/82	06/82	25+
Dillman Oil Recovery Inc.	Oblong, Il.	1,200	01/81	02/82	4+
Dow Chemical U.S.A.	Bay City, Mi.	20,000	05/80	09/81	25+
E-Z Serv Refining Inc.	Shallow Water, Kn.	9,500	04/81	02/82	25+
Energy Cooperative Inc.	East Chicago, In.	126,000	05/81	06/82	25+
Energy Development	Crossville, Il.	1,000	02/81	04/81	22
Flying J Petroleum Inc.	Williston, N.D.	4,600	08/84	12/87	32
Gladieux Refinery Inc.	Fort Wayne, In.	19,000	12/85	06/86	27+
Gulf Oil Corp.	Toledo, Oh.	50,300	06/81	11/81	25+
Hudson Refining Co. Inc.	Cushing, Ok.	19,000	12/82	11/83	6
Indiana Refining Inc.	Princeton, In.	5,000	12/80	02/81	23
Industrial Fuel and Asphalt of Indiana Inc.	Hammond, In.	7,600	12/81	06/82	25+
Kentucky Oil & Refining	Betsy Layne, Ky.	600	02/81	11/88	21
Lakeside Refining Co.	Kalamazoo, Mi.	5,600	09/85	12/87	39
Mid-America Refining Co. Inc.	Chanute, Kn.	3,000	03/81	07/82	25+
Motor Oils Refining	McCook, Il.	1,500	01/88	02/88	6
Northland Oil and Refining Co.	Dickinson, N.D.	5,000	02/81	02/82	7
Oklahoma Refining Co.	Cyril, Ok.	12,750	12/84	12/84	36+
Okmulgee Refining Co.	Okmulgee, Ok.	25,000	06/82	12/82	25+

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District II(cont)					
Phillips Petroleum Co.	Kansas City, Kn.	80,000	08/82	09/82	25+
Texaco Inc.	Lockport, Il.	72,000	04/81	10/81	25+
Texas American Petrochemical Inc.	West Branch, MI.	11,500	09/81	02/82	25+
Tonkawa Refining Co.	Arnett, Ok.	12,000	06/84	09/84	16
Tosco Corp.	Duncan, Ok.	47,000	06/83	12/84	35
Wireback Oil Co.	Plymouth, Ok.	1,800	02/81	03/81	25+
TOTAL PAD II		931,750			
PAD District III					
Adobe Refining Co., div. of Funding Systems Refining Corp.	La Blanca, Tx.	5,200	11/81	12/81	25+
Amber Refining Inc.	Fort Worth, Tx.	19,700	12/85	12/88	42
Bayou State Oil Corp.	Houston, La.	3,000	01/81	03/82	25+
Brio Refining Inc.	Friendswood, Tx.	12,500	09/82	12/82	4
Bronco Refining Co.	Houston, Tx.	2,250	04/81	07/82	1
Carbonit Refining Co.	Hearne, Tx.	11,000	02/81	12/81	6
Caribou-Four Corners Inc.	Farmington, N.M.	2,200	05/82	08/84	19
Clark Oil & Refining Corp.	Mt. Airy, La.	0	12/86	12/87	39
Clinton Manges	Palestine, Tx.	6,000	07/81	07/82	25+
Conoco Inc.	Alvin/Texas City, Tx.	33,274	10/85	12/85	22
Conoco Inc.	Egan, La.	2,800	12/86	02/89	16
Copano Refining Co.	Ingleside, Tx.	11,100	09/81	02/82	4
Damson Gas Processing Corp.	White Deer, Tx.	0	02/85	05/85	12
Donna Refining Partners Ltd.	Donna, Tx.	4,750	11/89	12/89	1
Dorchester Refining Co.	Mt. Pleasant, Tx.	26,500	09/84	12/84	36+
Dow Chemical U.S.A.	Freeport, Tx.	190,000	08/81	06/82	1
Eagle Refining	Jackson, Tx.	1,800	01/90	10/90	
Eddy Refining Co.	Houston, Tx.	3,250	10/84	11/84	36+
Erickson Refining Corp.	Pt. Neches, Tx.	30,000	12/81	08/83	4
Evangeline Refining Co.	Jennings, La.	4,500	12/82	12/82	25+
Flint Chemical Co.	San Antonio, Tx.	1,500	01/85	03/85	23
GAMXX Energy Inc.	Theodore, Al.	27,000	01/88	03/88	17
Giant Industries Inc.	Farmington, N.M.	13,500	05/82	11/82	7
Gulf Oil Corp.	Venice, La.	28,700	04/81	12/81	13
Imron Refg., Inc.	San Leon, Tx	7,000	NA	08/90	0
Independent Refining Corp.	Winnie, Tx.	50,000	10/81	08/83	23
Liquid Energy Corp.	Bridgeport, Tx.	10,000	02/87	10/88	6
MacMillan Petroleum Co.	Norphlet, Ar.	5,800	08/87	12/87	39
Mallard Resources Inc.	Gueydan, La.	7,400	11/83	12/83	4
McTan Refining Corp.	St. James, La.	19,300	07/81	08/83	6
Mid-Gulf Energy Corp.	Ingleside, Tx.	39,400	10/83	05/84	6
Natchez Refining Co.	Natchez, Ms.	16,000	06/82	09/82	2
OGC Corp.	Egan, La.	5,000	09/87	10/88	2
Petraco-Valley Oil Refining Co.	Brownsville, Tx.	12,300	03/83	12/83	5
Petromax Refining Co.	Houston, Tx.	2,000	09/85	05/86	4
Placid Oil Co.	Mont Belvieu, Tx.	8,500	01/82	07/82	2
Port Petroleum Inc.	Stonewall, La.	3,200	12/83	02/84	4
Quintana Petrochemical Co.	Corpus Christi, Tx.	33,300	07/84	09/84	30

See notes and sources at end of table

Section VIII
Table 10b

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District III(cont)					
Quitman Refining Co.	Quitman, Tx.	6,600	04/82	06/82	4
Rio Grande Crude Refining	Brownsville, Tx.	9,500	06/81	06/82	3
Rio Grande Recovery Systems Inc.	Brownsville, Tx.	1,000	05/81	02/82	2
Sabine Resources Group	Stonewall, La.	10,000	NA	12/90	0
Schulze Processing Inc.	Tallulah, La.	1,760	05/81	08/82	4
Shepard Oil Co.	Jennings, La.	10,000	05/81	02/82	4
Shore, Inc.	Kilgore, Tx.	550	03/83	07/83	3
Sooner Refining Co.	Darrow, La.	8,000	01/82	02/82	2
Southern Union Refining Co.	Monument, N.M.	5,400	01/81	10/81	25+
Southern Union Refining Co.	Lovington, N.M.	36,100	08/84	11/84	8
Southland Oil Co.	Yazoo City, Ms.	5,500	02/81	07/81	25+
Tesoro Petroleum Corp.	Carrizo Springs, Tx.	26,100	07/84	12/84	27
T & S Refining Co.	Jennings, La.	10,500	07/81	03/82	2
Texaco Refining and Marketing Inc.	Amarillo, Tx.	20,000	04/85	12/85	37+
Texas NAPCO Inc.	St. James, La.	17,000	08/83	12/88	15
Texas Refining Co.	Midland, Tx.	2,500	04/81	06/81	1
Texas Standard Refining Inc.	Houston, Tx.	1,800	01/81	10/81	*(a)
Thriftway Oil Co.	Graham, Tx.	1,184	04/81	11/83	25+
Tipperary Refining Co.	Ingleside, Tx.	7,320	01/82	03/82	4
Tropicana Energy Co.	Ft. Worth (Euless),Tx.	4,650	12/83	12/85	19
Unocal Corp.	Nederland, Tx.	120,000	12/89	12/89	6
Vulcan Refining	Crdova, Al.	9,500	09/90	12/90	
Warrior Asphalt Refining Corp.	Holt, Al.	4,000	08/89	12/89	34
Wickett Refining Co.	Wickett, Tx.	8,000	01/76	02/82	25+
TOTAL PAD III		986,688			
PAD District IV					
Caribou-Four Corners Inc.	Woods Cross, Ut.	8,400	12/82	12/84	21
C & H Refinery Inc.	Lusk, Wy.	180	01/81	02/82	25+
Flying J. Petroleum Inc.	Cutbank, Mt.	5,600	03/83	02/88	36
Glacier Park Co.	Osage, Wy.	10,000	02/81	03/82	4
Glenrock Refinery Inc.	Glenrock, Wy.	6,000	04/81	09/81	5
Husky Oil Co.	Cody, Wy.	11,500	06/82	09/82	25+
Kenco Refining Inc.	Wolf Point, Mt.	4,700	10/85	12/85	8
Morrison Petroleum Co.	Woods Cross, Ut.	6,000	12/85	12/85	11
Mountaineer Refining Co.,Inc.	LaBarge, Wy.	350	12/87	06/88	13
Sage Creek Refining Co.	Cowley, Wy.	1,000	01/82	06/82	17
Silver Eagle Oil Co.	LaBarge, Wy.	3,000	10/82	12/87	13
Southwestern Refining Co.	La Barge, Wy.	1,040	04/81	08/81	7
Texaco Inc.	Casper, Wy.	21,000	03/82	07/82	25+
TOTAL PAD 1V		78,770			
PAD District V					
Arizona Fuels Corp.	Fredonia, Az.	6,000	02/83	09/83	11
Beacon Oil Co.	Hanford, Ca.	17,300	11/87	12/87	27
Chevron U.S.A. Inc.	Bakersfield, Ca.	26,000	04/86	07/86	38+
Coastal Petroleum Refiners Inc.	Bakersfield, Ca.	10,000	06/85	12/85	6
Demenno-Kerdoon	Compton, Ca.	10,000	01/83	08/83	6

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District V(cont)					
Gibson Oil & Refining	Bakersfield, Ca.	9,600	07/87	12/90	
Golden Eagle Refining Co.,Inc.	Carson, Ca.	16,170	11/84	02/85	37+
Newhall Refining Co.,Inc.	Newhall, Ca.	22,500	11/89	12/89	42
Quad Refining Corp.	Bakersfield, Ca.	7,000	08/80	10/81	2
Road Oil Sales Inc.	Bakersfield, Ca.	6,000	01/81	12/81	9
Sabre Refining Inc.	Bakersfield, Ca.	10,000	12/86	09/87	16
Tosco Corp.	Bakersfield, Ca.	38,800	11/83	11/84	33
United Independent Oil Co.	Tacoma, Wa.	730	07/80	03/82	7
U.S.A. Petrochemical Corp.	Venturam, Ca.	24,000	12/84	12/84	7
West Coast Oil Co.	Oildale, Ca.	5,000	10/85	10/88	32
Western Oil & Refining	Long Beach, Ca.	19,200	02/84	12/87	11
TOTAL PAD V		228,300			
TOTAL UNITED STATES		2,463,288			

(a) Less than one year.

SOURCE: U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annuals.

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1960		1970		1980		1983	
Company	**Capacity**	**Company**	**Capacity**	**Company**	**Capacity**	**Company**	**Capacity**
Standard of New Jersey	961.7	Standard of New Jersey	1,087.0	Exxon	1,557.0	Standard of California	1296.5
Texaco	724.0	Standard of Indiana	1,040.4	Standard of California	1,383.7	Exxon	1200
Socony-Mobil	716.7	Texaco	1,029.5	Standard of Indiana	1,238.0	Standard of Indiana	1011
Standard of Indiana	675.4	Shell	1,011.5	Shell	1,123.4	Shell	1005.2
Standard of California	647.5	Standard of California	969.0	Texaco	1,059.0	Gulf(a)	849.2
Shell	594.0	Mobil	794.9	Gulf(a)	949.2	Texaco	815
Gulf	500.6	Gulf(a)	751.6	Mobil	835.7	Mobil	750
Sinclair	473.0	Atlantic Richfield	681.2	Atlantic Richfield	811.2	Atlantic Richfield	701
Cities Service	293.0	Sun	455.0	Sun(b)	521.5	U.S. Steel	492.5
Phillips	274.3	Union	444.0	Marathon	513.0	Standard of Ohio	456
Sun	255.0	Standard of Ohio	439.0	Union	490.0	Sun(b)	443
Tidewater	253.5	Phillips	398.0	Ashland	462.9	DuPont	415.8
Continental	216.0	Ashland	318.3	Standard of Ohio	452.0	Unocal(d)	370.5
Atlantic	210.0	Continental	299.0	Conoco	448.1	Ashland	353.3
Pure	187.0	Cities Service	281.0	Phillips	397.0	Southland(Citgo)(e)	297
Union	181.0	Getty	207.0	Cities Service	291.0	Phillips	295
Sunray Mid-Continent	171.0	Marathon	205.0	Union Pacific	283.8	Getty	258.6
Standard of Ohio	170.5	Coastal States Gas	135.0	Coastal	278.0	Koch	242
Ashland	168.5	Amerada Hess	125.0	Getty	261.5	Union Pacific	215
Richfield	165.0	Union Pacific	122.5	Tosco	260.5	Coastal	171.3
U.S. TOTAL	9,629.7	U.S. TOTAL(c)	12,811.0	U.S. TOTAL(c)	18,279.3	U.S. TOTAL(c)	14949.1

See notes and sources at end of table

Twenty Leading Companies-- U.S. Refining Capacity (Thousands of Barrels per Day)

1984		1985		1986		1987	
Company	Capacity	Company	Capacity	Company	Capacity	Company	Capacity
Chevron(f)	2029.3	Chevron(a)(f)	1879.2	Chevron(h)	1845	Chevron	1718.6
Exxon	1182	Exxon	1200	Exxon	1143.5	Exxon	1169
Shell	1005	Shell	1019.6	Shell	1045.8	Shell	1065.7
Standard of Indiana	986	Amoco (Std. of Ind.)	982	Amoco	967	Amoco	939
Texaco(g)	939	Texaco	873.2	Texaco	886	Texaco	881.5
Mobil	750	Mobil	755	Mobil	755	Mobil	755
Atlantic Richfield	741	Standard Oil (Ohio)	664.5	ARCO (Atlantic ichfield)	673	ARCO	668
U.S. Steel	492.5	Atlantic Richfield	655	Standard Oil	667.6	BP America (Standard Oil)(i)	667.6
Standard of Ohio	456	U.S. Steel	492.5	USX (U.S. Steel)	513	USX	513
Sun(b)	443	Unocal	474.5	Unocal	490	Unocal	497
DuPont	429.8	Sun(b)	443	Sun(b)	443	Sun(b)	460
Ashland	353.3	DuPont	400	DuPont	393.2	DuPont	394.3
Unocal	339	Ashland	346.5	Ashland	346.5	Ashland	346.5
Phillips	300	Phillips	300	Coastal	318.3	Phillips	305
Southland	297	Southland	297	Phillips	305	Coastal	290.4
Koch	262	Koch Industries	280	Citgo (Southland)	297	Koch	280
Union Pacific	217	Coastal	261.3	Koch Industries	280	Petroleos de Venezuela(l)	226.1
Coastal	171.3	Union Pacific	220	Union Pacific	218.4	Total Petroleum	191.1
Kerr-McGee	164.8	Kerr-McGee	164.8	Kerr-McGee	155.8	Kerr-McGee	164.8
Tosco	164.5	Total	152	Solomon (Philbro)	154.4	Solomon	155.7
U.S. TOTAL(c)	14481.6	U.S. TOTAL(c)	14761.5	U.S. TOTAL(c)	15067.8	U.S. TOTAL(c)	15139

See notes and sources at end of table

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1988		1989	
Company	Capacity	Company	Capacity
Chevron	1660	Chevron	1,621.0
Exxon	1181	Exxon	1,147.0
Shell	1082.6	Shell	1,078.6
Amoco	959	Amoco	956.0
Texaco(j)	894	Movil	838.0
Mobil	823	BP America	756.6
BP America	756.6	USX	603.0
ARCO	686	Texaco(m)	595.0
Sun(k)	590	Sun(k)	595.0
USX	553	ARCO(n)	559.0
Unocal	442.1	DuPont	406.5
DuPont	397.3	Ashland	346.5
Ashland	346.5	Petroleos de Venezuela(o)	344.5
Coastal	320.8	Koch	310.0
Phillips	305	Phillips	305.0
Koch	305	Coastal(p)	302.8
Solomon	276.1	Unocal(q)	295.6
Petroleos de Venezuela(l)	217.5	Aramco(r)	295.0
Total Petroleum	184.1	Solomon	277.1
American Petrofina	165	Total Petroleum	190.1
U.S. TOTAL(c)	15096.8	U.S. TOTAL(c)	15,183.6

See notes and sources at end of table

Section VIII
Table 11c

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

(a) Includes volumes from Gulf's Bayamon refinery in Puerto Rico.
(b) Includes volumes from Sun's Yabucoa refinery in Puerto Rico.
(c) Includes Puerto Rico.
(d) Unocal Corporation is the parent of Union Oil Company of California.
(e) Southland acquired the refining, marketing and transportation sections of Citgo Petroleum Corp., a subsidiary of Occidental, on September 1, 1983
(f) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure reflects this acquisition which also includes volumes from a refinery in Bayamon, Puerto Rico.
(g) Texaco acquired Getty Oil Company on March 1
(h) Includes 38 mbd from a refinery in San Juan, Puerto Rico.
(i) BP America was formed in 1987 through the acquisition of The Standard Oil Company by BP North America Inc.
(j) Texaco's figure includes 615,000 b/d from Star Enterprise, a joint venture formed on December 31, 1988 between Texaco and Aramco Services (the Saudi Arabian Oil Company)
(k) Sun's figure includes 85,000 b/d from a refinery in Yabucoa, Puerto Rico and 125,000 b/d from Sun's acquisition of Atlantic Petroleum Corporation's operations on November 1, 1988.
(l) Petroleos de Venezuela, the Venezuelan national oil company, owns one-half of Citgo Petroleum and one-half of Champlin Refining Company. In 1988, Citgo's operable refining capacity averaged 305,000 b/d, and Champlin's averaged 130,000 b/d.
(m) Texaco's figure includes its equity portion of 295,000 b/d from Star Enterprise, a joint venture with Aramco Services.
(n) ARCO's figure includes the 49.9% share of the Lyondell Petrochemical Company (approximately 145,000 b/d) retained afer ARCO sold its majority interest in Lyondell in January 1989.
(o) On January 1, 1989 Petroleos de Venezuela (PDV) acquired the other equity share of Champlin Refining Company from Union Pacific Resources. On December 1, 1989 PDV acquired half of UNO-VEN, a joint venture formed with Unocal Corporation. PDV also owns one-half of Citgo Petroleum; the Southland Corporation owns the other half. In 1989 UNO-VEN's operable refining capacity averaged 147,000 b/d, and Citgo's averaged 282,000 b/d.
(p) In January 1989 Coastal sold half of its West Coast refining and marketing properties, including Pacific Refining Company (55,000 b/d operable refining capacity) to the China National Chemicals Import & Export Corporation (Sinochem)
(q) Unocal's figure includes its equity share of UNO-VEN's operations (73,000 b/d operable refining capacity), a joint venture formed on December 1, 1989 with PDV.
(r) Aramco's figure represents the operable refining capacity from its equity share of Star Enterprise, a joint venture with Texaco.

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R

United States Gas Processing Capacities and Average Production(a)

State	1984			1985			1986			1987		
	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
AL	5	182.0	599.6	5	182.0	403.2	5	167.0	401.2	5	173.0	379.3
AK	2	62.0	56.8	2	62.0	50.3	2	82.0	39.0	3	3,382.0	41.3
AR	3	130.0	82.9	5	1,005.0	104.6	6	962.5	104.6	5	953.0	94.1
CA	37	1,483.1	1,280.1	34	1,167.6	1,267.3	36	1,066.0	1,340.3	36	1,015.2	1,277.0
CO	44	858.0	1,008.7	43	876.2	1,085.2	47	1,004.9	1,038.3	43	1,016.2	887.1
FL	3	961.5	374.0	3	934.0	353.9	3	799.0	454.8	2	790.0	428.6
IL	2	551.5	985.8	2	551.5	985.2	0	0.0	0.0	0	0	0
KS	25	4,901.5	1,942.4	27	5,124.0	2,480.2	26	5,646.0	2,280.8	26	5,429.5	2,264.6
KY	2	897.6	431.2	2	916.0	440.9	3	916.0	481.0	2	71.0	214.8
LA	106	22,194.5	9,852.3	97	22,983.5	11,253.5	94	20,366.4	10,085.2	86	19,941.6	10,129.7
MI	6	449.4	926.4	9	675.4	1,095.0	26	4,734.9	963.8	27	4,744.6	1,021.1
MS	7	1,005.0	51.6	6	995.0	55.1	6	995.0	56.5	5	899.0	45.9
MT	8	58.0	95.8	9	70.0	113.1	9	70.0	120.0	7	52.0	86.5
NE	2	13.5	11.9	2	13.5	11.6	2	13.5	10.5	2	3.5	6.5
NM	44	3,683.3	3,845.4	39	3,255.2	3,954.7	34	3,141.6	3,461.7	30	3,435.4	4,566.4
ND	9	306.8	520.3	11	314.2	663.0	10	284.3	537.6	11	346.7	558.5
OH	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
OK	104	4,857.6	5,570.3	110	4,884.9	6,243.9	108	4,989.8	5,692.2	109	4,949.0	5,432.2
PA	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
TX	415	23,504.6	24,782.4	399	21,071.0	26,638.5	384	19,630.8	26,548.6	357	19,045.5	25,659.2
UT	10	520.5	372.3	11	521.5	377.6	11	531.5	340.9	11	516.5	318.4
WV	6	410.0	698.0	6	416.0	715.9	7	430.0	794.4	7	379.0	766.5
WY	40	1,912.6	1,683.1	39	1,815.2	1,801.6	41	1,897.9	1,627.7	36	1,668.4	1,459.7
TOTAL U.S.	880	68,943.0	55,171.3	861	67,833.7	60,094.3	862	67,729.1	56,378.1	810	68,811.1	63685.0 (c)

See notes and sources at end of table

United States Gas Processing Capacities and Average Production(a)

	1988			1989			1990			1991		
State	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
AL	6	177.0	412.0	7	255.0	449.7	7	255.0	867.6	7	255.0	959.1
AK	4	3,385.5	2,188.4	3	3,333.5	2,160.2	4	4,073.5	2,359.2	4	5,773.5	2,739.2
AR	5	943.0	76.4	4	933.0	90.4	4	933.0	73.7	5	938.0	75.6
CA	36	1,028.9	1,299.1	34	999.7	1,347.9	34	1,032.7	1,201.2	32	1,090.7	1,144.0
CO	37	925.2	770.1	38	982.5	905.4	42	1,101.5	1,186.1	43	1,095.5	1,227.2
FL	2	790.0	409.4	2	790.0	338.3	2	890.0	358.0	2	890.0	310.3
IL	0	0	0	0	0.0	0	0	0	0	0	0.0	0
KS	25	5,592.5	2,615.8	24	5,562.5	2,749.7	25	5,448.1	2,531.2	23	5,191.0	2,897.2
KY	2	71.0	162.6	2	71.0	169.3	2	71.0	117.5	2	71.0	163.3
LA	79	19,492.5	10,197.9	77	18,921.1	9,962.6	80	18,720.5	9,674.8	75	18,666.0	9,832.4
MI	28	4,744.1	939.1	29	4,763.1	877.4	31	4,824.1	804.7	28	4,757.3	664.8
MS	6	901.0	54.8	6	901.0	39.0	7	902.2	44.5	6	898.2	41.0
MT	6	22.0	76.0	7	27.0	89.5	7	27.0	89.4	7	28.0	63.1
NE	2	3.5	7.2	1	1.5	0.4	1	1.5	0.4	0	0.0	0.0
NM	27	3,310.8	4,281.5	28	3,346.4	5,356.3	28	3,176.0	5,091.9	28	2,655.5	5,349.8
ND	9	308.0	483.4	8	193.6	463.5	8	165.0	384.7	8	128.0	399.2
OH	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	1	20.0	6.4
OK	106	4,571.4	5,787.0	101	4,613.5	7,440.0	103	4,433.5	6,765.4	101	4,678.0	7,813.6
PA	2	14.0	11.3	2	14.0	11.3	2	14.0	11.8	2	14.0	11.8
TX	325	17,802.2	24,981.7	311	16,786.0	29,200.9	315	16,621.4	28,247.8	301	16,470.1	28,023.7
UT	11	485.5	399.8	12	522.5	422.3	12	537.5	299.0	12	522.5	306.4
WV	7	399.0	730.9	7	397.0	779.7	7	397.0	792.6	7	397.5	745.8
WY	39	2,864.0	5,048.0	39	3,333.0	5,318.0	40	3,489.5	3,387.5	40	3,660.3	4,423.7
TOTAL U.S.	764	67,831.1	68,240.4 (c)	742	66,746.9	68,171.8	761	67,114.0	64,289.0	734	68,200.1	67,197.6

(a) Capacities as of January 1, production for the preceeding 12 months.

(b) Products include ethane, propane, butane, normal or unsplit butane LP-gas mix, raw NGL mix, debut natural gasoline and other.

(c) Includes data from Phillips Petroleum Co., Bartlesville, Okla., not provided in state-by-state totals.

SOURCE: Oil and Gas Journal, Annual Gas Processing Report issue.

World Gas Processing Capacities and Average Production(a)

Country	1984 No. of Plants	1984 Gas Capacity (MMcfd)	1984 Product Production(b) (000 gal/day)	1985 No. of Plants	1985 Gas Capacity (MMcfd)	1985 Product Production(b) (000 gas/day)	1986 No. of Plants	1986 Gas Capacity (MMcfd)	1986 Product Production(b) (000 gal/day)	1987 No. of Plants	1987 Gas Capacity (MMcfd)	1987 Product Production(b) (000 gal/day)
Abu Dhabi	4	2,048.0	2,790.3	5	2,498.0	1,179.3	5	2,498.0	1,179.3	5	2,498.0	1,179.3
Algeria	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0
Argentina	11	1,715.9	1,656.2	11	1,715.9	1,656.2	11	1,715.9	1,701.7	11	1,715.0	1,697.9
Australia	4	1,707.0	1,932.0	4	1,707.0	1,920.0	5	2,070.0	6,284.0	5	2,007.0	6,005.0
Austria	2	5.7	0.9	2	5.7	0.3	2	5.7	0.0	2	5.7	--
Bahrain	1	127.7	353.8	1	145.0	354.9	1	143.0	335.4	1	168.0	363.3
Bangladesh	0	0.0	0.0	8	460.0	16.2	8	460.0	16.2	8	460.0	16.2
Bolivia	2	474.0	32.6	2	474.0	32.6	2	474.0	32.6	2	474.0	364.0
Brazil	5	295.3	448.6	5	312.0	598.3	6	369.4	711.7	6	369.4	711.7
Brunei	1	48.0	49.6	2	998.0	314.4	2	998.0	319.6	2	998.0	344.0
Canada	345	19,465.3	14,209.1	385	22,001.8	15,133.4	403	22,807.9	17,381.7	419	23,460.2	15,835.3
Chile	2	445.0	436.1	2	470.0	452.0	2	470.0	452.0	2	470.0	422.0
China, Taiwan	4	271.0	132.5	4	271.0	132.5	4	271.0	110.3	4	271.0	106.3
Colombia	2	125.0	187.0	2	125.0	187.0	2	125.0	157.9	4	238.0	267.1
Denmark	0	0.0	0.0	1	405.0	0.0	1	405.0	0.9	1	450.0	50.0
Dominican Rep.	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2
Dubai	0	0.0	0.0	1	330.0	1,176.0	1	330.0	1,016.4	1	330.0	820.0
Ecuador	2	0.0	11.5	2	0.0	11.5	2	0.0	11.5	2	0.0	11.5
Egypt	4	553.0	1,797.1	7	826.0	928.3	7	969.0	1,122.2	7	1,019.0	1,326.6
France	1	1,024.0	761.0	1	900.0	740.0	1	777.0	666.0	1	570.0	541.0
Germany	5	542.9	0.0	5	542.9	0.0	5	542.9	0.0	5	542.9	0.0
Greece	1	9.8	16.0	2	39.0	83.0	1	10.5	85.0	1	10.5	85.0
Hungary	12	732.7	831.4	12	788.5	911.2	12	855.9	1,068.4	12	947.1	1,065.3
Indonesia	5	587.8	1,005.2	10	933.2	1,639.9	10	884.3	1,446.5	10	884.3	1,542.6
Italy	14	5,560.0	491.9	16	7,101.0	220.0	16	7,101.0	220.0	17	7,249.0	194.1
Kuwait	1	1,680.0	1,772.0	1	1,680.0	1,772.0	1	1,680.0	1,772.0	1	1,680.0	1,772.0
Libya	7	1,851.0	6,165.8	7	1,851.0	1,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8
Malaysia	0	0.0	0.0	1	250.0	1,111.0	2	282.0	406.0	2	282.0	465.0
Mexico	9	3,807.0	10,679.8	9	3,807.0	10,679.8	10	4,334.0	10,017.3	10	4,334.0	10,017.3
Netherlands	1	330.0	6.3	1	440.0	6.0	1	440.0	4.2	1	440.0	5.5
New Zealand	1	96.0	26.5	1	96.0	34.7	1	96.0	34.7	2	248.0	40.0
Norway	0	0.0	0.0	1	350.0	160.0	2	950.0	368.4	2	950.0	1,399.1
Oman	--	--	--	--	--	--	--	--	--	0	0.0	0.0
Pakistan	5	1,215.0	32.2	5	950.0	62.4	5	950.0	62.4	5	950.0	62.4
Peru	3	50.0	44.2	3	70.0	28.1	2	70.0	38.7	2	70.0	38.7
Qatar	2	580.0	696.5	2	578.7	1,777.9	2	580.0	1,096.0	2	560.0	1,028.1
Saudi Arabia	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	1,176.0
Sharjah	1	250.0	1,316.0	1	500.0	2,436.0	1	580.0	2,520.0	2	1,020.0	2,436.2
Spain	--	--	--	--	--	--	--	--	--	0	0.0	0.0
Thailand	--	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	5	2,435.0	2,424.3	5	2,235.0	2,418.1	7	2,648.2	2,627.5	7	2,648.2	2,567.9
Venezuela	14	2,696.0	2,788.6	14	2,696.0	2,788.6	17	4,251.0	2,566.8	17	4,251.0	2,566.8
Yemen	--	--	--	--	--	--	--	--	--	--	--	--
Total (ex. U.S.)	487	60,363.3	60,630.2	551	68,187.9	59,662.6	577	72,630.9	69,534.3	598	74,056.5	69,048.2

See notes and sources at end of table

Section VIII
Table 13a

World Gas Processing Capacities and Average Production(a)

	1988			1989			1990			1991		
Country	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production((000 gal/day
Abu Dhabi	5	1,602.0	546.0	5	1,602.0	546.0	5	1,602.0	546.0	6	1,719.0	546.0
Algeria	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0
Argentina	13	1,344.8	1,794.0	13	1,344.8	1,794.0	14	1,488.4	1,840.3	14	1,488.4	1,840.0
Australia	5	2,573.0	3,619.0	5	2,573.0	3,487.8	5	2,573.0	3,487.8	5	2,333.0	3,487.8
Austria	2	19.7	10.7	1	17.5	55.1	1	17.5	55.1	1	17.5	55.1
Bahrain	1	168.0	367.0	1	168.0	367.0	1	168.0	25.6	1	168.0	25.6
Bangladesh	2	240.0	8.2	2	240.0	8.2	2	240.0	8.2	2	240.0	8.2
Bolivia	2	474.0	364.0	2	474.0	364.0	2	474.0	364.0	2	474.0	364.0
Brazil	10	437.8	1,056.3	10	437.8	1,056.3	11	449.7	874.5	11	452.3	668.1
Brunei	2	1,032.0	304.1	2	1,032.0	311.6	2	1,032.0	311.6	2	1,132.0	272.9
Canada	449	24,656.6	16,683.7	486	25,187.0	19,179.3	512	24,925.8	21,950.9	540	26,444.3	22,026.5
Chile	2	470.0	420.8	2	470.0	416.0	2	470.0	416.0	2	470.0	416.0
China, Taiwan	4	271.0	106.3	4	271.0	108.1	4	270.3	78.2	4	271.0	65.6
Colombia	5	323.1	321.3	5	323.0	321.3	6	348.0	358.6	7	366.4	327.2
Denmark	1	450.0	100.0	1	450.0	100.0	1	450.0	100.0	1	450.0	100.0
Dominican Rep.	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2	0	0.0	0.0
Dubai	1	330.0	772.0	1	330.0	650.5	1	330.0	650.5	1	330.0	650.5
Ecuador	2	41.0	134.4	2	41.0	134.4	2	41.0	134.4	2	41.0	134.4
Egypt	9	1,449.0	1,973.3	8	1,320.0	1,953.0	8	1,320.0	1,850.2	8	1,323.0	1,930.4
France	1	570.0	541.0	1	570.0	541.0	1	570.0	541.0	1	570.0	541.0
Germany	5	399.0	0.0	4	385.0	0.0	3	366.0	0.0	3	366.0	0.0
Greece	1	10.5	86.6	2	39.0	72.0	2	39.0	72.0	2	40.0	110.3
Hungary	12	1,078.1	1,153.8	12	1,078.1	1,153.8	12	1,097.2	1,432.2	12	1,097.2	1,432.2
Indonesia	8	630.5	980.6	10	2,797.5	2,505.9	10	3,900.5	2,020.4	10	3,905.0	1,822.0
Italy	17	7,166.0	63.7	17	7,614.0	18.2	17	7,614.0	18.2	17	7,614.0	18.2
Kuwait	1	560.0	3,513.8	1	1,815.0	3,513.8	1	1,815.0	3,513.8	3	1,815.0	3,513.8
Libya	7	1,851.0	6,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8
Malaysia	2	282.0	465.0	2	282.0	503.2	2	282.0	503.2	2	282.0	503.2
Mexico	10	4,334.0	10,017.3	11	4,649.0	12,714.4	11	4,649.0	12,714.4	11	4,649.0	15,189.2
Netherlands	1	440.0	4.9	1	350.0	1.8	1	350.0	4.2	1	440.0	6.1
New Zealand	3	852.0	48.0	4	1,152.0	879.9	6	1,152.0	927.9	6	1,444.0	927.9
Norway	2	950.0	1,597.0	2	950.0	1,439.0	2	950.0	1,439.0	2	950.0	1,531.0
Oman	8	626.0	245.0	8	626.0	245.0	8	626.0	245.0	8	626.0	245.0
Pakistan	6	1,095.0	49.1	6	430.0	64.0	7	430.0	64.0	6	1,275.0	127.8
Peru	2	70.0	42.9	2	70.0	42.9	2	70.0	42.9	2	70.0	42.9
Qatar	2	579.0	932.2	2	579.0	863.1	2	579.0	863.1	2	579.0	993.0
Saudi Arabia	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	0.0	5	4,300.0	0.0
Sharjah	2	990.0	1,813.1	2	990.0	1,813.0	2	990.0	1,743.0	2	940.0	1,657.0
Spain	3	428.0	94.0	3	428.0	73.0	3	428.0	73.0	3	428.0	73.0
Thailand	--	--	--	2	850.0	492.8	2	850.0	492.8	2	850.0	492.8
United Kingdom	10	4,070.2	2,489.8	8	3,732.0	3,853.3	9	3,732.0	2,573.3	10	7,910.0	2,420.6
Venezuela	14	2,913.0	4,201.9	14	2,913.0	4,201.9	14	2,913.0	4,201.9	14	2,913.0	4,201.9
Yemen	--	--	--	1	400.0	86.0	1	400.0	309.0	1	400.0	359.1
Total (ex. U.S.)	642	75,411.5	70,621.8	682	80,466.9	78,359.0	714	81,488.6	79,371.2	745	88,369.3	81,374.1

(a) Capacities as of January 1, production is for the preceeding 12 months.
(b) Products include ethane, propane, butane, normal or unsplit butane, LP-gas mix, raw NGL mix, debut natural gasoline and other.

SOURCE: Oil and Gas Journal, Annual Gas Processing Report issue.

BASIC PETROLEUM DATA BOOK

SECTION IX. IMPORTS

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Table 9. U.S. Direct Petroleum Imports From Members of the OAPEC September 1973-April 1974
Table 10. World Oil Movements
Table 11. Historical U.S. Imports of Crude Oil and Refined Products: 1918-1946

The Share of Imports in United States Domestic Petroleum Demand
(Thousands of Barrels)

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1947	159,389	1,989,803	8.0%
1948	188,144	2,113,678	8.9%
1949	235,559	2,118,250	11.1%
1950	310,261	2,392,974	13.0%
1951	308,194	2,578,766	12.0%
1952	348,507	2,668,134	13.1%
1953	377,499	2,776,778	13.6%
1954	383,955	2,833,896	13.5%
1955	455,564	3,089,348	14.7%
1956	525,591	3,214,651	16.3%
1957	574,589	3,221,949	17.8%
1958	620,589	3,327,993	18.6%
1959	649,583	3,477,173	18.7%
1960	664,111	3,585,820	18.5%
1961	699,666	3,641,280	19.2%
1962	759,793	3,796,029	20.0%
1963	774,713	3,921,364	19.8%
1964	826,736	4,034,236	20.5%
1965	900,772	4,202,039	21.4%
1966	939,162	4,410,796	21.3%
1967	925,991	4,584,526	20.2%
1968	1,039,369	4,901,789	21.2%
1969	1,155,551	5,159,930	22.4%
1970	1,248,062	5,364,473	23.3%
1971	1,432,880	5,552,560	25.8%
1972	1,735,314	5,990,316	29.0%
1973	2,283,493	6,317,303	36.1%
1974	2,230,947	6,078,239	36.7%
1975	2,210,335	5,957,515	37.1%
1976	2,676,411	6,390,750	41.9%
1977	3,207,106 (a)	6,727,468	47.7%
1978	2,993,847 (a)	6,879,017	43.5%
1979	3,062,053 (a)	6,757,077	45.3%
1980	2,512,636 (a)	6,242,445	40.3%
1981	2,095,122 (a)	5,861,058	35.7%
1982	1,806,165 (a)	5,582,938	32.4%
1983	1,758,457 (a)	5,559,364	31.6%
1984	1,917,897 (a)	5,755,575	33.3%
1985	1,806,304 (a)	5,740,143	31.5%
1986	2,254,019 (a)	5,942,429	37.9%
1987	2,410,842 (a)	6,082,742	39.6%
1988	2,690,382 (a)	6,325,692	42.5%

See notes and sources at end of table

Section IX
Table 1a

The Share of Imports in United States Domestic Petroleum Demand
(Thousands of Barrels)

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1989	2,921,751 (a)	6,323,681	46.2%
1990	2,916,623 (a)	6,200,801	47.0%

(a) Excludes crude oil imports into Strategic Petroleum Reserve: 1977- 7,540; 1978- 58,798; 1979- 23,434
1980- 16,067; 1981-93,298; 1982- 60,193; 1983- 85,285; 1984- 72,038
1985- 43,124; 1986- 17,563; 1987- 26,517; 1988- 18,758; 1989- 20,348; 1990-9,772

SOURCE: 1947-1975: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 2

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1947	97,532	(a)	(b)	61,857	159,369	1,856,987	132,173	1,989,160
1948	129,093	(a)	(b)	59,051	188,144	2,020,185	146,721	2,166,906
1949	153,686	(a)	(b)	81,873	235,559	1,841,940	157,086	1,999,026
1950	177,714	(a)	(b)	132,547	310,261	1,973,574	181,961	2,155,535
1951	179,073	(a)	(b)	129,121	308,194	2,247,711	204,754	2,452,465
1952	209,591	(a)	(b)	138,916	348,507	2,289,836	223,515	2,513,351
1953	236,455	(a)	(b)	141,044	377,499	2,357,082	238,579	2,595,661
1954	239,479	(a)	(b)	144,476	383,955	2,314,988	252,133	2,567,121
1955	285,421	(a)	(b)	170,143	455,564	2,484,428	281,371	2,765,799
1956	341,833	(a)	(b)	183,758	525,591	2,617,283	292,727	2,910,010
1957	373,255	(a)	(b)	201,334	574,589	2,616,901	294,990	2,911,891
1958	348,007	(a)	(b)	272,582	620,589	2,448,987	294,749	2,743,736
1959	352,344	23,072	(b)	274,167	649,583	2,574,590	320,757	2,895,347
1960	371,575	16,478	(b)	276,058	664,111	2,574,933	340,157	2,915,090
1961	381,548	25,348	(b)	292,770	699,666	2,621,758	361,689	2,983,447
1962	411,039	32,516	(b)	316,238	759,793	2,676,189	372,705	3,048,894
1963	412,660	31,702	(b)	330,351	774,713	2,752,723	400,886	3,153,609
1964	438,643	32,587	(b)	355,506	826,736	2,786,822	422,471	3,209,293
1965	452,040	33,706	(b)	415,026	900,772	2,848,514	441,556	3,290,070
1966	447,120	35,236	(b)	456,806	939,162	3,027,763	468,635	3,496,398
1967	411,649	35,225	(b)	479,117	925,991	3,215,742	514,456	3,730,198
1968	472,323	29,350	(b)	537,696	1,039,369	3,329,042	550,311	3,879,353
1969	514,114	38,766	(b)	602,671	1,155,551	3,371,751	580,241	3,951,992
1970	483,293	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366
1971	613,417	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729
1972	811,135	45,706	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584
1973	1,183,996	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326
1974	1,269,155	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683
1975	1,498,181	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737
1976	1,935,012	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225
1977	2,406,787	11,239	15,003	774,077	3,207,106	3,009,265	590,455	3,599,720
1978	2,261,028	9,913	6,017	716,889	2,993,847	3,178,216	572,086	3,750,302
1979	2,355,107	21,372	4,749	680,825	3,062,053	3,121,310	578,023	3,699,333
1980	1,910,095	20,015	3,781	598,745	2,532,636	3,146,365	575,787	3,722,152
1981	1,511,405	40,793	3,658	539,265	2,096,121	3,128,624	587,119	3,715,743
1982	1,213,021	63,657	2,292	527,195	1,806,165	3,156,715	565,876	3,722,591
1983	1,129,940	85,580	2,355	540,584	1,758,459	3,170,999	568,926	3,739,925
1984	1,181,911	84,496	N.A.	651,491	1,917,898	3,249,696	596,477	3,846,173

See notes and sources at end of table

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1985	1,125,173	115,979	N.A.	565,231	1,806,383	3,274,553	587,358	3,861,911
Jan.	77,312	4,815	N.A.	47,834	129,961	270,926	50,454	321,380
Feb.	56,277	6,446	N.A.	44,108	106,831	252,695	45,446	298,141
Mar.	84,875	9,109	N.A.	49,388	143,372	281,943	49,602	331,545
Apr.	98,798	12,106	N.A.	45,333	156,237	271,299	47,457	318,756
May	108,740	15,788	N.A.	47,640	172,168	283,093	49,408	332,501
Jun.	91,009	11,027	N.A.	41,206	143,242	270,653	47,909	318,562
Jul.	92,290	11,220	N.A.	42,931	146,441	277,410	48,606	326,016
Aug.	92,962	13,142	N.A.	36,559	142,663	272,881	49,423	322,304
Sep.	92,523	8,771	N.A.	45,696	146,990	268,610	47,252	315,862
Oct.	99,751	8,240	N.A.	50,136	158,127	278,068	49,914	327,982
Nov.	118,374	8,552	N.A.	54,974	181,900	267,059	49,808	316,867
Dec.	112,260	6,762	N.A.	59,428	178,450	279,916	52,079	331,995
1986	1,507,415	91,269	N.A.	655,335	2,254,019	3,168,252	566,000	3,734,252
Jan.	106,031	8,464	N.A.	56,663	171,158	283,248	53,031	336,279
Feb.	82,434	4,675	N.A.	43,166	130,275	256,855	47,495	304,350
Mar.	90,806	7,468	N.A.	45,965	144,239	279,413	49,734	329,147
Apr.	108,631	9,034	N.A.	43,629	161,294	265,917	45,686	311,603
May	130,653	9,928	N.A.	56,712	197,293	273,964	47,827	321,791
Jun.	137,140	7,720	N.A.	58,663	203,523	258,700	45,115	303,815
Jul.	144,891	6,956	N.A.	61,726	213,573	268,448	46,728	315,176
Aug.	149,064	6,233	N.A.	65,340	220,637	259,580	44,784	304,364
Sep.	149,516	7,879	N.A.	53,888	211,283	249,843	44,050	293,893
Oct.	135,850	7,138	N.A.	55,120	198,108	260,984	45,778	306,762
Nov.	137,090	8,284	N.A.	51,025	196,399	252,374	47,083	299,457
Dec.	135,309	7,490	N.A.	63,438	206,237	258,926	48,689	307,615
1987	1,679,405	109,298	N.A.	622,139	2,410,842	3,047,378	582,291	3,629,669
Jan.	133,081	5,883	N.A.	55,122	194,086	262,888	49,055	311,943
Feb.	107,019	8,697	N.A.	50,608	166,324	234,880	45,306	280,186
Mar.	114,219	10,797	N.A.	51,655	176,671	262,398	49,529	311,927
Apr.	122,266	9,348	N.A.	44,023	175,637	254,945	47,688	302,633
May	131,692	8,745	N.A.	44,957	185,394	258,426	49,150	307,576
Jun.	142,285	12,906	N.A.	45,958	201,149	248,356	47,352	295,708
Jul.	161,764	7,786	N.A.	63,302	232,852	255,782	49,037	304,819
Aug.	168,843	8,448	N.A.	51,816	229,107	254,508	48,701	303,209
Sep.	151,395	8,179	N.A.	53,848	213,422	246,163	47,450	293,613
Oct.	157,629	9,800	N.A.	49,903	217,332	259,272	49,670	308,942
Nov.	147,494	8,310	N.A.	53,332	209,136	251,915	49,103	301,018
Dec.	141,718	10,399	N.A.	57,614	209,731	257,844	50,250	308,094

See notes and sources at end of table

Section IX
Table 2b

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1988	1,850,247	131,599	N.A.	708,536	2,690,382	2,979,123	594,692	3,573,815
Jan.	142,444	12,045	N.A.	66,051	220,540	255,743	48,939	304,682
Feb.	133,433	8,508	N.A.	67,048	208,989	242,848	46,547	289,395
Mar.	150,210	9,546	N.A.	54,816	214,572	259,587	50,725	310,312
Apr.	152,687	12,957	N.A.	50,142	215,786	248,629	48,529	297,158
May	164,830	12,634	N.A.	53,389	230,853	255,089	50,442	305,531
Jun.	157,560	12,327	N.A.	45,173	215,060	245,102	48,477	293,579
Jul.	156,810	12,454	N.A.	55,650	224,914	249,229	50,156	299,385
Aug.	156,970	10,138	N.A.	61,053	228,161	250,459	50,096	300,555
Sep.	153,849	9,363	N.A.	59,451	222,663	236,847	48,630	285,477
Oct.	170,737	10,253	N.A.	60,395	241,385	248,704	51,496	300,200
Nov.	149,425	13,187	N.A.	66,145	228,757	240,700	49,881	290,581
Dec.	161,292	8,187	N.A.	69,222	238,701	246,189	50,662	296,851
1989	2,112,413	126,903	N.A.	682,435	2,921,751	2,778,773	564,125	3,342,898
Jan.	173,487	10,689	N.A.	69,718	253,894	246,056	51,597	297,653
Feb.	146,174	11,228	N.A.	65,115	222,517	218,076	44,995	263,071
Mar.	153,767	8,849	N.A.	66,191	228,807	234,822	51,152	285,974
Apr.	170,712	12,917	N.A.	56,922	240,551	233,147	50,221	283,368
May	175,210	11,420	N.A.	52,090	238,720	242,303	50,219	292,522
Jun.	177,611	10,985	N.A.	49,064	237,660	228,731	45,207	273,938
Jul.	190,301	10,780	N.A.	56,031	257,112	230,766	47,786	278,552
Aug.	202,529	11,013	N.A.	50,830	264,372	233,878	46,612	280,490
Sep.	179,078	11,783	N.A.	47,453	238,314	226,436	44,410	270,846
Oct.	190,630	10,741	N.A.	54,820	256,191	231,036	45,816	276,852
Nov.	183,917	9,779	N.A.	55,319	249,015	226,082	44,485	270,567
Dec.	168,997	6,719	N.A.	58,882	234,598	227,439	41,625	269,064
1990	2,141,615	150,828	N.A.	624,180	2,916,623	2,684,687	568,999	3,253,686
Jan.	191,830	13,657	N.A.	78,146	283,633	233,931	47,773	281,704
Feb.	164,717	11,219	N.A.	58,584	234,520	209,923	43,966	253,889
Mar.	188,271	12,059	N.A.	43,865	244,195	230,434	47,318	277,752
Apr.	173,254	10,845	N.A.	49,353	233,452	222,215	44,777	266,992
May	197,304	13,148	N.A.	57,875	268,327	227,179	46,573	273,752
Jun.	192,205	13,546	N.A.	56,156	261,907	213,175	43,741	256,916
Jul.	212,514	10,935	N.A.	57,047	280,496	222,371	46,011	268,382
Aug.	197,504	11,700	N.A.	53,313	262,517	225,886	48,816	274,702
Sep.	169,907	11,763	N.A.	39,170	220,840	216,715	47,908	264,623
Oct.	159,080	12,943	N.A.	36,196	208,219	233,799	51,691	285,490
Nov.	152,549	16,759	N.A.	40,775	210,083	221,598	50,709	272,307
Dec.	142,930	12,254	N.A.	44,427	199,611	227,463	49,716	277,179

See notes and sources at end of table

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

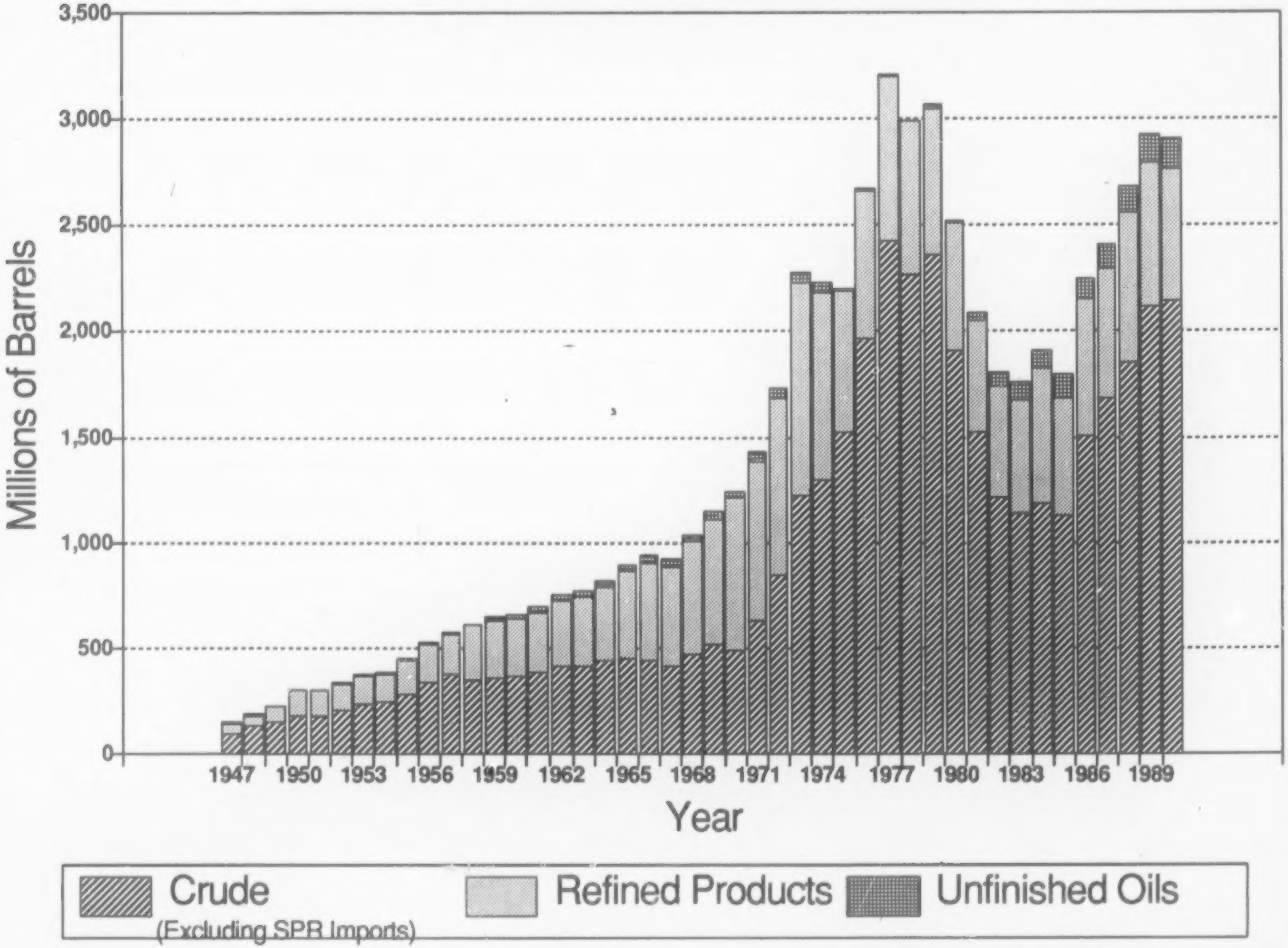
	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1991(p)								
Jan.	164,391	13,980	N.A.	40,685	219,056	229,965	50,670	280,635
Feb.	153,955	8,612	N.A.	29,070	191,637	211,353	47,310	258,663
Mar.	159,000	8,681	N.A.	35,375	203,056	231,924	51,785	283,709
Apr.	165,689	10,268	N.A.	45,257	221,214	224,016	49,686	273,702
May	197,988	17,199	N.A.	48,190	263,377	228,414	51,059	279,473
Jun.	189,517	8,551	N.A.	47,244	245,312	218,463	48,479	266,942
Jul	184,427	15,971	N.A.	38,744	239,142	227,093	49,847	276,940
Aug.	206,675	12,489	N.A.	48,125	267,289	225,437	50,135	275,572
Sep.	173,839	15,976	N.A.	42,531	232,346	219,974	48,267	268,241

(a) Separate data not available prior to 1959
(b) Separate data not available prior to 1970
(c) Excludes crude oil imported into the Strategic Petroleum Reserve.
(d) Excludes unfinished oils and plant condensate.
(p) Preliminary

SOURCE: 1947-1964: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues
1965-1980–U.S. Energy Informaton Administration, Annual Petroleum Statements.
1981-1991–U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies.

U.S. PETROLEUM IMPORTS

Section IX
Table 2d



Source: US Bureau of Mines, US Department of Energy

United States Crude Oil Imports by Area
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1947	97,146	--	386	–	97,532
1948	105,912	--	23,181	–	129,093
1949	116,736	--	36,950	–	153,686
1950	136,096	--	41,618	–	177,714
1951	138,074	--	37,501	3,498	179,073
1952	147,771	--	56,556	5,264	209,591
1953	141,552	--	80,934	13,969	236,455
1954	148,010	--	77,764	13,705	239,479
1955	173,136	--	100,344	11,941	285,421
1956	225,007	--	103,517	13,309	341,833
1957	261,736	--	87,798	23,719	373,253
1958	199,256	--	123,019	25,732	348,007
1959	212,707	--	115,875	23,762	352,344
1960	230,229	1,451	113,175	26,720	371,575
1961	237,995	1,887	118,997	22,669	381,548
1962	267,660	9,808	109,071	24,480	411,039
1963	278,933	9,173	103,214	21,340	412,660
1964	289,012	17,743	106,841	23,047	436,643
1965	283,377	24,585	121,906	22,170	452,040
1966	289,800	31,543	107,579	18,198	447,120
1967	301,002	20,151	67,977	22,519	411,649
1968	315,977	57,461	72,330	26,555	472,323
1969	337,847	82,380	61,616	32,271	514,114
1970	351,366	44,365	61,892	25,670	483,293
1971	378,102	68,361	124,155	42,799	613,417
1972	421,799	172,105	155,982	61,249	811,135
1973	532,238	285,481	292,988	73,289	1,183,996
1974	446,534	356,121	362,186	104,314	1,269,155
1975	453,772	488,515	409,496	146,398	1,498,181
1976	316,202	716,661	681,184	220,965	1,935,012
1977	328,468	912,631	910,744	262,484	2,414,327
1978	345,624	830,773	832,305	311,124	2,319,826
1979	435,817	911,352	765,249	267,123	2,379,541
1980	379,813	731,342	561,248	253,759	1,926,162
1981	352,373	486,768	447,518	318,044	1,604,703
1982	430,955	282,706	248,560	310,993	1,273,214
1983	497,237	247,555	160,221	310,213	1,215,225
1984	508,983	225,929	168,336	350,701	1,253,949
1985	605,771	213,090	89,583	259,853	1,168,297
1986	670,239	266,946	300,207	287,586	1,524,978
1987	699,301	363,829	359,628	283,164	1,705,922
1988	737,577	370,000	512,685	248,743	1,869,005
1989	781,794	469,676	643,217	238,074	2,132,761
1990	826,727	451,171	678,056	195,433	2,151,387

SOURCE: 1947-1974: U.S. Bureau of Mines, Crude Petroleum, Petroleum products and Natural Gas Liquids, Annual and December issues.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Bolivia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	--	463	1,116	2,527	2,565	16,810	42,739	55,131	30,426	33,730	41,349	66,614	85,152
Colombia	10,944	8,542	11,678	16,159	16,312	16,209	15,860	12,415	8,125	9,009	8,366	9,411	12,437	14,799	10,050	8,614
Ecuador	--	--	--	--	--	--	90	300	474	368	933	--	--	--	--	--
Mexico	5,578	3,601	4,797	12,307	13,862	8,483	2,897	3,018	5,510	4,666	2,441	672	112	925	3,655	3,644
Trinidad	--	--	--	--	--	--	--	356	121	566	1,111	120	--	269	152	--
Venezuela	75,499	89,062	99,648	107,019	107,437	121,963	120,178	128,377	140,754	167,050	193,756	158,167	165,883	172,887	155,751	168,993
Total Western Hemisphere	97,146	105,912	116,7[illegible]	136,096	138,074	147,771	141,552	148,010	173,136	225,007	261,738	199,256	212,707	230,229	237,995	267,680
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Europe	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	284	--	1,543
Angola	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Congo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--	--	--	1,167	1,887	1,543
Gabon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,722
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tunisia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zaire																
Total Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	1,451	1,887	9,808
Iran	--	4,507	1,107	111	--	--	--	204	3,202	7,267	6,624	5,348	8,961	13,056	21,970	17,735
Iraq	--	766	341	--	--	705	2,287	2,188	6,988	9,640	4,477	8,972	7,667	6,363	7,362	856
Kuwait	111	3,442	23,445	26,741	21,601	26,444	38,611	41,046	48,954	50,953	51,389	68,098	59,169	47,512	44,311	40,749
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	116	--	--	3,368	3,524	5,511	4,915	2,247	1,513	231	1,649	3,575	9,535
Saudi Arabia	275	14,466	12,057	14,650	15,900	29,407	36,668	27,819	29,050	27,670	21,011	27,081	24,756	28,232	22,501	24,359
United Arab Emirates(b)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Middle East	386	23,181	36,950	41,618	37,501	56,556	80,934	77,764	100,344	103,517	87,798	123,019	115,875	113,175	118,997	109,071
Australia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Borneo	--	--	--	--	3,498	1,624	--	--	--	--	--	4,679	3,739	--	--	--
Indonesia	--	--	--	--	--	3,640	13,969	13,705	11,941	13,309	24,226	21,053	20,023	26,720	22,669	24,480
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Far East	--	--	--	--	3,498	5,264	13,969	13,705	11,941	13,309	23,719	25,732	23,762	26,720	22,669	24,480
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	386 '	23,181	36,950	41,618	40,999	61,820	94,903	91,469	112,285	116,826	111,517	148,751	139,637	141,346	143,553	143,359
ANNUAL TOTAL(a)	97,532	129,093	153,686	177,714	179,073	209,591	236,455	239,479	285,421	341,833	373,255	348,007	352,344	371,575	381,548	411,039

See notes and sources at end of table

Section IX
Table 4a

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Bolivia	--	--	--	1,237	7,016	6,866	5,596	534	798	--	891	2,467	1,940	1,849	1,271	308
Canada	90,394	101,607	107,762	126,712	150,409	169,418	203,298	245,258	263,294	312,440	365,370	288,763	219,175	135,690	101,778	90,490
Colombia	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175	1,695	778	--	--	2,041	--	--
Ecuador	--	--	--	--	--	--	--	--	--	5,331	17,229	15,225	20,679	18,671	20,229	13,910
Mexico	3,657	3,577	2,552	--	--	--	--	--	--	--	489	597	25,660	31,670	64,711	115,426
Trinidad	--	--	--	--	--	--	--	265	--	8,626	21,739	23,045	42,097	38,142	48,841	51,974
Venezuela	174,537	174,222	157,852	147,427	131,089	125,737	111,722	97,996	110,574	93,300	125,742	116,437	144,221	88,139	91,331	66,125
Total Western Hemisphere	278,933	289,012	283,377	289,800	301,002	315,977	337,847	351,366	378,102	421,799	532,238	446,534	453,772	316,202	328,466	345,624
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	125	4,923	35,583	61,555
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	1,500	--	1,509	846
Norway	--	--	--	--	--	--	--	--	--	--	--	322	4,552	12,881	17,628	37,815
Total Europe	--	--	--	--	--	--	--	--	--	--	--	322	6,177	17,804	54,720	100,216
Algeria	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685	31,753	43,619	65,764	96,459	149,190	198,468	231,253
Angola	--	--	--	--	--	--	424	--	1,301	5,785	17,753	17,536	26,051	2,426	6,150	2,290
Congo	--	--	--	--	--	--	--	--	--	--	--	670	--	3,142	2,440	5,454
Egypt	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924	3,091	5,296	3,227	1,687	6,311	13,034	7,395
Gabon	--	--	--	--	661	--	--	--	--	--	--	8,552	9,811	9,685	12,632	13,841
Libya	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426	40,069	48,585	1,495	81,403	162,457	256,984	232,897
Nigeria	--	--	5,296	4,114	1,432	3,131	17,958	17,490	34,826	88,887	163,687	254,358	272,265	370,962	412,498	332,035
Tunisia	--	--	--	--	--	--	--	--	1,199	2,520	6,541	4,519	839	5,400	10,425	4,460
Zaire					--	--	--	--	--	--	--	--	--	7,088	--	263
Total Africa	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361	172,105	285,481	356,121	488,515	716,661	912,631	830,773
Iran	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576	49,700	78,990	168,956	101,575	109,073	193,415	202,357
Iraq	321	--	5,695	9,447	1,716	--	--	--	3,932	1,315	1,529	--	707	9,542	26,894	22,673
Kuwait	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650	13,205	15,208	1,820	1,444	451	15,434	1,718
Oman	--	--	--	--	--	--	--	--	--	--	--	236	492	10,943	27,140	22,240
Qatar	5,835	7,294	4,346	176	--	--	191	--	--	1,263	2,663	6,189	6,657	8,631	24,281	23,224
Saudi Arabia	28,806	35,464	48,235	45,771	29,679	18,959	12,665	6,140	41,971	63,626	168,525	159,827	256,036	447,071	501,072	416,910
United Arab Emirates(b)	--	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026	26,873	25,764	25,158	42,585	93,105	121,640	140,653
Total Middle East	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155	155,982	292,988	362,186	409,496	681,184	910,744	832,305
Australia	--	--	--	--	--	--	--	--	2,567	327	--	--	--	--	--	--
Borneo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232	59,633	73,055	103,482	138,270	196,599	184,984	194,620
Malaysia	--	--	--	--	--	--	--	--	--	966	234	510	1,951	5,914	20,257	13,677
Total Far East	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799	60,926	73,289	103,992	140,221	202,513	207,089	210,632
U.S.S.R.	--	--	--	--	--	--	--	--	--	323	--	--	--	648	675	276
Total Eastern Hemisphere	133,727	149,631	168,663	157,320	110,647	156,346	176,267	131,927	235,315	389,336	651,758	822,621	1,044,409	1,618,810	2,085,859	1,974,202
ANNUAL TOTAL(a)	412,660	438,643	452,040	447,120	411,649	472,323	514,114	483,293	613,417	811,135	1,183,996	1,269,155	1,498,181	1,935,012	2,414,327	2,319,826

See notes and sources at end of table

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 (c)	1990
Bolivia	328	301	--	--	1,361	260	--	268	--	--	--	--
Canada	99,081	73,002	59,904	78,041	100,142	124,687	170,800	208,163	221,981	249,077	230,043	234,516
Colombia	--	--	--	--	--	--	--	20,715	41,809	38,640	49,615	51,041
Ecuador	11,010	6,129	13,967	11,788	20,594	17,066	20,334	23,408	8,217	12,240	29,206	13,886
Mexico	158,908	185,541	171,363	235,298	279,703	241,054	261,019	226,533	219,552	246,545	261,244	251,345
Trinidad	44,950	42,011	37,186	33,541	30,207	31,939	35,595	34,060	27,408	26,119	26,815	27,803
Venezuela	106,794	56,950	53,590	56,434	59,854	92,728	111,627	151,937	178,163	160,747	180,598	242,910
Total Western Hemisphere	435,817	379,813	352,373	430,955	497,237	508,983	605,771	670,239	699,301	737,577	781,794	826,727
United Kingdom	71,923	63,459	134,766	161,061	133,142	138,246	101,552	115,659	111,060	92,910	58,246	56,497
Netherlands	2,685	22	1	3	1,039	1,046	--	--	--	--	--	--
Norway	27,523	52,727	41,542	37,299	23,836	40,927	11,311	19,403	25,395	22,570	46,390	34,878
Total Europe	102,316	116,208	176,315	198,371	193,529	180,219	113,096	135,062	136,665	117,363	105,699	92,044
Algeria	222,042	166,980	95,165	32,714	64,274	71,074	30,524	28,423	41,932	21,123	21,841	23,035
Angola	14,088	13,389	16,528	15,248	25,763	31,172	37,889	37,076	65,657	74,325	101,943	86,095
Congo	909	2,658	1,276	456	6,616	12,226	5,962	7,188	5,960	10,747	3,997	1,387
Egypt	20,205	11,249	12,155	14,683	8,958	3,485	956	3,620	19,884	9,560	5,515	9,005
Gabon	15,328	9,062	12,633	14,429	21,415	20,838	18,797	8,959	12,655	5,664	17,774	23,349
Libya	234,173	200,406	115,572	8,452	--	--	--	--	--	--	--	--
Nigeria	390,116	307,840	222,981	186,329	109,807	75,669	102,134	159,683	193,004	222,094	292,165	286,126
Tunisia	6,429	2,801	4,104	3,481	2,564	4	4,259	1,230	--	--	1,767	645
Zaire	1,379	4,690	5,977	6,914	8,158	11,460	12,569	9,490	8,128	11,470	9,493	8,468
Total Africa	911,352	731,342	486,768	282,706	247,555	225,929	213,090	266,946	363,829	370,000	469,676	451,171
Iran	108,269	3,086	--	12,854	17,575	3,706	9,919	7,078	35,942	25	--	--
Iraq	32,052	10,328	--	974	3,758	4,554	16,889	29,401	29,842	125,515	161,017	187,485
Kuwait	1,898	9,712	--	904	2,641	8,780	1,316	10,106	25,630	29,381	56,536	28,942
Oman	13,466	8,693	8,702	8,183	12,281	3,755	655	2,897	12,831	2,439	6,671	13,037
Qatar	11,450	7,920	2,665	2,600	--	1,497	--	4,365	--	--	767	1,293
Saudi Arabia	491,514	457,671	406,059	193,536	117,325	113,078	48,044	225,627	234,213	330,194	407,23[illegible]	436,193
United Arab Emirates(b)	102,709	63,052	27,950	29,509	6,641	32,966	12,760	13,806	20,602	8,270	7,51[illegible]	3,300
Total Middle East	765,249	561,248	447,518	248,560	160,221	168,336	89,583	300,207	359,6[illegible]8	512,686	64[illegible]17	678,056
Australia	--	--	--	1	--	9,177	7,557	10,973	17,952	21,669	11,237	17,307
Borneo	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	138,528	114,990	116,126	82,315	115,156	111,404	106,654	108,376	95,775	68,127	57,636	35,912
Malaysia	18,954	22,213	12,143	6,574	930	--	301	3,883	4,464	6,868	14,079	14,749
Total Far East	164,807	137,551	128,269	92,848	116,683	126,196	127,539	152,522	146,499	131,380	121,627	103,092
U.S.S.R.	--	--	--	--	--	--	--	2	--	--	--	297
Total Eastern Hemisphere	1,943,724	1,546,349	1,252,332	842,263	717,988	744,966	562,526	854,739	1,006,621	1,131,428	1,340,219	1,324,660
ANNUAL TOTAL(a)	2,379,541	1,926,162	1,604,703	1,273,214	1,215,225	1,253,949	1,168,297	1,524,978	1,705,922	1,869,005	2,132,761	2,151,387

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

(a) Totals reflect countries not individually listed.
(b) Figures from 1947-1971 reflect Abu Dhabi only. Beginning in 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates.
(c) Total also reflects an amount with country of origin not identified.

SOURCE: 1947-1975: U.S. Bureau of Mines, December and Annual Petroleum Statements
1976-1980: Energy Information Administration, Annual Petroleum Statements.
1981-1990: Energy Information Administration, Petroleum Supply Annual.

United States Imports of Crude Oil by P.A.D. Districts
(Thousands of Barrels)

Year		P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil
1952	(a)	192,349	1,116	4,423	–	11,703	209,591
1953		202,611	2,562	2,871	–	28,411	236,455
1954		213,413	2,772	4,553	–	18,741	239,479
1955		232,850	7,425	11,098	–	34,048	285,421
1956		244,453	19,904	11,917	70	65,489	341,833
1957		247,395	22,296	8,729	86	94,749	373,255
1958		238,769	25,328	16,242	13	67,655	348,007
1959		235,259	21,279	10,184	15	85,607	352,344
1960		244,196	23,265	2,939	20	101,155	371,575
1961		236,905	30,971	2,354	30	111,288	381,548
1962		244,235	34,646	2,489	682	128,987	411,039
1963		248,199	34,666	1,698	3,528	124,569	412,660
1964		252,527	37,801	1,835	4,409	142,071	438,643
1965		258,361	41,264	–	4,807	147,608	452,040
1966		259,499	48,114	449	4,954	134,104	447,120
1967		216,920	56,408	672	6,648	131,001	411,649
1968		263,866	78,365	641	10,058	119,393	472,323
1969		269,007	88,434	–	12,714	143,959	514,114
1970		211,403	115,613	–	17,573	138,704	483,293
1971		252,088	137,064	20,449	16,869	186,947	613,417
1972		354,549	171,338	28,331	14,126	242,791	811,135
1973		466,074	260,368	145,654	16,132	295,768	1,183,996
1974		428,608	250,771	289,999	16,579	283,198	1,269,155
1975		451,549	282,658	437,049	16,090	310,835	1,498,181
1976		517,840	366,107	651,381	19,878	379,806	1,935,012
1977	(b)	553,955	516,775	927,596	15,957	400,044	2,414,327
1978	(b)	542,856	494,132	1,045,691	18,132	219,015	2,319,826
1979	(b)	522,580	556,861	1,083,749	23,656	192,695	2,379,541
1980	(b)	491,292	409,533	854,233	14,268	156,836	1,926,162
1981	(b)	407,384	248,393	828,287	10,513	110,126	1,604,703
1982	(b)	349,583	211,727	628,591	14,625	68,687	1,273,214
1983	(b)	298,070	193,427	632,974	13,959	76,794	1,215,225
1984	(b)	345,642	182,565	639,238	12,233	74,271	1,253,949
1985	(b)	356,697	215,179	517,861	14,056	64,505	1,168,297
1986	(b)	394,490	286,276	756,465	19,613	66,134	1,524,978
1987	(b)	405,596	317,384	887,454	23,563	71,925	1,705,922
1988	(b)	429,968	346,950	994,989	23,456	73,642	1,869,005
1989	(b)	438,409	389,443	1,181,311	26,189	97,409	2,132,761
1990	(b)	441,265	409,783	1,188,027	27,702	84,610	2,151,387

(a) Figures not available by P.A.D.D. prior to 1952.
(b) Figures include crude oil imported into the Strategic Petroleum Reserve.

SOURCE: 1952-1972: U.S. Bureau of Mines, Minerals Yearbook
1973-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals

Section IX
Table 6

United States Imports of Residual and Distillate Fuel by P.A.D. Districts
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil
1950	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	120,036	2,602
1951	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	119,166	1,767
1952	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	128,479	2,742
1953	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	131,533	3,379
1954	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	129,124	3,195
1955	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	152,035	4,413
1956	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	162,869	5,159
1957	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	173,229	8,566
1958	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	182,306	14,892
1959 (b)	219,341	17,283	230	13	2,981	360	1	2	18	0	222,571	17,658
1960	211,788	11,365	59	12	14,416	1,298	0	96	6,945	0	233,208	12,771
1961	214,453	15,533	284	24	12,320	1,654	1	142	16,210	24	243,268	17,377
1962	237,565	9,811	610	31	11,775	1,892	47	92	14,317	5	264,314	11,831
1963	252,785	7,787	800	63	12,327	1,250	26	1	6,815	9	272,753	9,110
1964	274,306	10,559	804	64	11,204	1,119	45	0	9,412	43	295,771	11,785
1965	318,634	11,041	1,188	17	14,598	1,811	43	0	10,724	133	345,187	13,002
1966	357,907	12,548	860	107	11,708	967	55	0	6,265	223	376,795	13,845
1967	383,260	16,851	587	224	7,475	891	60	0	4,557	526	395,939	18,492
1968	394,528	45,502	573	360	8,271	1,290	54	0	6,502	996	409,928	48,148
1969	440,983	47,720	627	1,264	12,167	937	78	0	7,756	962	461,611	50,883
1970	536,968	49,333	4,207	2,223	11,029	1,192	52	0	5,589	1,078	557,845	53,826
1971	558,771	53,373	3,953	258	6,553	1,079	41	0	8,382	1,073	577,700	55,783
1972	616,990	64,302	5,458	473	6,212	1,191	0	0	8,741	483	637,401	66,449
1973	639,611	125,210	6,068	1,353	10,471	12,406	0	104	20,075	4,076	676,225	143,149
1974	538,573	95,018	7,919	621	11,806	6,766	--	32	20,859	3,142	579,157	105,579
1975	416,105	54,300	14,015	223	3,957	1,441	--	1	12,451	713	446,528	56,678
1976	495,980	49,225	11,720	97	1,728	680	--	--	7,897	3,518	517,325	53,520
1977	467,124	88,177	11,754	55	818	413	--	--	16,369	2,673	496,065	91,318
1978	468,937	59,023	17,101	306	939	210	--	--	7,663	3,749	494,640	63,288
1979	392,861	64,091	14,267	70	2,044	1,568	--	4	10,972	4,756	420,144	70,489
1980	317,157	48,518	10,754	--	6,485	1,268	--	--	9,161	2,122	343,557	51,908
1981	260,156	59,180	8,592	5	14,055	2,634	--	2	9,266	1,251	292,069	63,072
1982	235,912	29,763	3,966	392	35,700	1,526	9	4	7,514	2,355	283,101	34,040
1983	222,276	56,129	5,375	3,075	19,555	2,189	193	488	7,814	1,660	255,213	63,541
1984	218,730	91,885	2,069	2,999	23,488	1,029	158	1,300	4,766	2,227	249,211	99,440
1985	163,779	64,576	907	2,652	16,579	855	131	1,363	4,888	3,643	186,284	73,089
1986	221,943	82,414	1,394	2,857	13,372	864	50	966	7,394	3,195	244,153	90,296
1987	192,337	84,822	1,316	3,394	9,702	2,855	10	804	2,773	1,301	206,138	93,176
1988	212,374	104,576	1,873	2,090	8,554	913	7	1,352	13,052	1,423	235,860	110,354
1989	211,024	104,991	1,614	2,783	6,243	1,142	6	760	10,708	1,998	229,595	111,674
1990	162,744	96,227	906	2,254	10,580	630	99	761	9,512	1,583	183,841	101,455

(a) Figures not available by P.A.D. prior to 1959.
(b) Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands.

SOURCE: 1950-1972: U.S. Bureau of Mines, Minerals Yearbook
1973-1974: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products, and Natural Gas Liquids; Annual and December issues.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 7

United States Imports of Unfinished Oils and Refined Products by P.A.D. Districts(a)
(Thousands of Barrels)

Year	P.A.D.D. I Unfinished Oils	P.A.D.D. I Refined Products	P.A.D.D. II Unfinished Oils	P.A.D.D. II Refined Products	P.A.D.D. III Unfinished Oils	P.A.D.D. III Refined Products	P.A.D.D. IV Unfinished Oils	P.A.D.D. IV Refined Products	P.A.D.D. V Unfinished Oils	P.A.D.D. V Refined Products	Totals Unfinished Oils	Totals Refined Products
1959 (b)	16,628	264,347	587	606	2,148	4,861	–	31	3,709	4,322	23,072	274,167
1960	9,534	248,388	520	1,019	994	16,788	–	121	5,430	9,742	16,478	276,058
1961	18,045	256,484	1,184	1,324	145	15,258	–	180	5,974	19,524	25,348	292,770
1962	22,297	279,475	360	1,746	1,616	15,101	–	154	8,243	19,762	32,516	316,238
1963	21,779	299,530	476	2,193	2,102	14,952	–	39	7,345	13,637	31,702	330,351
1964	21,151	321,994	478	3,552	1,011	13,117	–	159	9,947	16,684	32,587	355,506
1965	23,260	369,760	213	5,739	377	18,073	–	727	9,856	20,727	33,706	415,026
1966	26,743	410,435	43	7,276	15	13,826	–	971	8,435	24,298	35,236	456,806
1967	23,222	434,265	20	7,171	276	9,873	–	879	11,707	26,929	35,225	479,117
1968	21,987	489,628	1	7,573	109	10,618	–	2,253	7,253	27,624	29,350	537,696
1969	28,975	543,947	51	8,245	1,034	15,087	–	2,979	8,706	32,413	38,766	602,671
1970	30,221	651,123 (c)	–	20,022 (c)	913	21,191	–	3,192 (c)	8,127	29,980 (c)	39,261	725,508 (c)
1971	30,651	685,309 (c)	–	22,918 (c)	2,217	17,425	–	7,786 (c)	12,325	43,832 (c)	45,193	777,270 (c)
1972	30,715	761,491 (c)	–	39,798 (c)	1,548	16,474	–	16,623 (c)	13,442	44,088 (c)	45,705	878,474 (c)
1973	26,216	874,707 (c)	739	53,985 (c)	10,681	45,714	–	16,285 (c)	12,525	58,645 (c)	50,161	1,049,336
1974	14,084	757,416 (c)	1,155	49,860 (c)	19,208	43,356 (c)	–	14,143 (c)	9,781	52,789 (c)	44,228	917,564 (c)
1975	6,038	578,739 (c)	392	49,345 (c)	4,170	15,989 (c)	–	12,327 (c)	2,385	42,769 (c)	12,985	699,169 (c)
1976	7,721	619,068	16	34,334	3,750	13,382	–	5,888 (c)	248	32,584	11,735	705,256
1977	9,333	665,984	15	43,912	905	17,422	–	5,922	986	40,659	11,239	773,899
1978	9,022	614,132	15	45,676	226	8,427	–	4,635	650	43,998	9,913	716,868
1979	7,945	545,758	338	68,663	7,687	21,135	–	4,737	5,402	40,532	21,372	680,825
1980	11,489	446,336	217	68,505	5,855	25,986	–	5,222	2,454	32,696	20,015	578,745
1981	18,096	392,310	396	69,554	19,442	39,355	–	7,877	2,858	33,827	40,792	542,923
1982	23,182	355,073	2,708	65,611	35,027	63,820	–	7,141	2,741	37,842	63,657	529,487
1983	32,030	390,381	4,120	62,081	47,060	50,025	604	6,981	1,765	33,471	85,580	542,938
1984	19,936	472,223	3,821	61,098	55,977	73,631	–	8,856	4,762	35,683	84,496	651,490
1985	23,527	399,657	2,985	54,284	86,611	60,507	–	9,190	856	41,593	115,979	565,231
1986	31,039	470,274	–	39,589	58,100	92,858	–	7,666	2,130	44,948	91,269	655,335
1987	41,514	471,083	207	38,783	65,943	75,854	–	6,801	1,634	29,618	109,298	622,139
1988	44,892	526,006	1,105	45,721	82,730	93,474	–	6,805	2,872	36,530	131,599	708,536
1989	44,998	512,431	–	43,189	79,453	95,467	22	4,650	2,430	26,698	126,903	682,435
1990	45,029	450,976	–	37,184	103,906	106,321	5	4,892	1,888	24,807	150,828	624,180

(a) Figures include receipts from Puerto Rico and Virgin Islands.
(b) Figures not available by P.A.D. district prior to 1959.
(c) Includes plant condensate.

SOURCE: 1959-1972: U.S. Department of Interior, Mineral Yearbooks
1973-1980: Department of Energy, Annual Petroleum Statements
1981-1990: Department of Energy, Petroleum Supply Annual

Section IX
Table 8

Total United States Petroleum Imports by Source
(Thousands of Barrels Per Day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Western Hemisphere																	
Bahamas	–	–	–	–	–	–	–	–	–	–	–	1	–	32	150	174	174
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608	767	857	1,108	1,325
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69	45	27	16	9
Ecuador	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	48
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41	42	27	21	16
Neth. Antilles	273	338	324	300	264	297	312	333	361	332	361	392	450	442	429	424	585
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72	87	95	102	99
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215	217	182	226	255
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876	983	1,019	960	1,135
Virgin Islands	–	–	–	–	–	–	–	–	–	–	36	78	116	189	273	303	329
Other	5	11	8	2	10	9	21	10	11	21	41	46	34	52	18	61	28
Total	1,265	1,267	1,356	1,399	1,493	1,660	1,726	1,815	1,967	2,066	2,145	2,264	2,481	2,856	3,077	3,395	4,003
Eastern Hemisphere																	
Abu Dhabi/United Arab Emirates(a)	–	–	–	–	–	–	–	3	14	13	5	16	14	63	80	73	71
Algeria	–	–	–	–	–	–	–	–	–	–	–	–	–	8	15	92	135
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89	70	111	164	213
Italy	–	8	4	1	–	–	–	1	2	18	28	49	75	83	79	83	125
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46	38	112	142	223
Iraq	–	–	–	–	–	–	–	–	–	–	–	–	–	–	11	4	4
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39	36	36	45	47
Libya	–	–	–	–	–	19	19	39	41	69	42	114	135	47	57	123	164
Malaysia	–	–	–	–	–	–	–	–	–	–	–	–	–	N.A.	N.A.	1	12
Netherlands	–	–	–	–	–	–	–	–	–	–	–	–	–	N.A.	N.A.	12	53
Nigeria	–	–	–	–	–	–	–	–	15	11	5	8	49	50	103	251	459
Norway	–	–	–	–	–	–	–	–	–	–	–	–	–	N.A.	N.A.	2	1
Oman	–	–	–	–	–	–	–	–	–	–	–	–	–	N.A.	N.A.	N.A.	N.A.
Qatar	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	7
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42	42	127	190	486
United Kingdom	–	–	–	–	–	–	–	–	–	–	–	–	–	N.A.	N.A.	10	9
Other	25	81	83	81	103	94	82	93	85	91	70	140	196	134	143	152	244
Total	309	433	424	416	424	422	397	443	501	507	392	576	685	563	848	1,847	2,253
Total U.S. Imports(b)	1,574	1,700	1,780	1,815	1,917	2,082	2,123	2,258	2,468	2,573	2,537	2,840	3,166	3,419	3,925	4,742	6,256

See notes and sources at end of table

Section IX
Table 8a

Total United States Petroleum Imports by Source
(Thousands of Barrels Per Day)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Western Hemisphere																	
Bahamas	164	152	118	167	160	147	76	74	65	125	88	40	37	37	32	34	37
Canada	1,070	846	599	516	467	538	455	447	482	547	630	770	807	848	999	931	934
Colombia	5	9	21	17	20	18	4	–	–	–	–	–	87	148	134	172	182
Ecuador	42	57	51	55	54	42	27	48	42	61	55	67	77	29	47	89	49
Mexico	8	71	87	179	318	439	533	522	685	826	748	816	699	655	747	767	755
Neth. Antilles	511	332	275	214	229	231	225	197	175	189	188	40	25	29	36	42	31
Puerto Rico	90	90	88	105	94	92	88	62	50	40	42	28	21	21	22	32	32
Trinidad	251	242	274	286	253	190	176	133	112	96	94	113	125	106	97	94	96
Venezuela	979	702	700	687	646	690	481	406	412	422	548	605	793	804	794	873	1,025
Virgin Islands	391	406	422	466	428	431	388	327	316	282	294	247	244	272	242	321	282
Other	21	44	13	16	33	50	59	79	84	114	110	143	152	127	149	141	104
Total	3,532	2,951	2,651	2,708	2,701	2,868	2,512	2,216	2,423	2,702	2,797	2,869	3,067	3,076	3,299	3,496	3,527
Eastern Hemisphere																	
Abu Dhabi/United Arab Emirates(a)	74	117	254	333	385	281	172	81	92	30	117	45	44	61	29	28	17
Algeria	190	282	432	552	649	636	488	311	170	240	323	187	271	295	300	269	280
Indonesia	300	389	539	533	573	420	348	366	248	338	343	314	318	285	205	183	114
Italy	74	27	39	51	38	30	4	–	–	–	–	–	76	54	65	34	58
Iran	469	280	298	530	555	304	9	–	35	48	10	27	19	98	–	–	–
Iraq	–	3	26	76	62	88	28	–	3	10	12	46	81	83	345	449	518
Kuwait	5	16	5	48	6	8	27	–	5	14	36	21	68	84	92	157	86
Libya	4	232	453	715	654	658	554	319	26	–	1	4	–	–	–	–	–
Malaysia	12	8	18	63	42	66	70	36	20	4	1	3	12	13	19	39	41
Netherlands	43	18	8	31	5	23	2	30	35	65	65	58	54	60	61	49	55
Nigeria	713	762	1,025	1,135	919	1,080	857	620	514	302	216	293	440	535	618	815	800
Norway	1	17	36	50	104	75	144	119	102	66	114	32	60	80	67	138	102
Oman	1	2	30	79	68	44	25	24	22	34	14	5	9	36	10	19	37
Qatar	17	18	24	67	64	31	22	7	7	–	5	–	13	–	–	2	4
Saudi Arabia	461	715	1,230	1,377	1,144	1,356	1,261	1,129	552	337	325	168	685	751	1,073	1,224	1,339
United Kingdom	8	11	31	124	180	202	176	375	456	382	402	310	350	352	315	215	189
Other	207	208	213	272	324	286	209	363	403	479	656	685	657	815	904	904	850
Total	2,579	3,105	4,662	6,036	5,662	5,588	4,396	3,780	2,690	2,349	2,640	2,198	3,157	3,602	4,103	4,565	4,490
Total U.S. Imports(b)	6,111	6,056	7,313	8,744	8,363	8,456	6,908	5,996	5,113	5,051	5,437	5,067	6,224	6,678	7,402	8,061	8,018

(a) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates
(b) 1989 and 1990 totals reflect an amount with country of origin not identified.
NA Not available on an individual country basis, included in "other"

SOURCE: 1957-1969: U.S. Bureau of Mines
1970-1980: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts"
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annual.

Section IX
Table 9

U.S. Direct Petroleum Imports from Members of the Organization of Arab Petroleum Exporting Countries September 1973 - April 1974 (Thousands of Barrels)

	September 1973			October 1973			November 1973			December 1973		
OAPEC Members	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
2. Bahrain	--	38	38	--	589	589	--	552	552	--	99	99
3. Egypt	--	--	--	--	--	--	--	--	--	--	--	--
4. Iraq	515	--	515	364	--	364	--	--	--	--	--	--
5. Kuwait	1,334	--	1,334	1,724	--	1,724	--	--	--	--	--	--
6. Libya	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
7. Qatar	1,222	--	1,222	543	--	543	273	--	273	74	--	74
8. Saudi Arabia	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	2,652	--	2,652	1,920	3	1,923	3,197	--	3,197	--	1	1
OAPEC Total	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
U.S. Total	104,117	88,227	192,344	115,905	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
OAPEC as a % of U.S. Total	30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

	January 1974			February 1974			March 1974			April 1974		
OAPEC Members	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	--	--	--	75	--	75	244	--	244	3,448	141	3,589
2. Bahrain	--	--	--	--	3	3	--	--	--	--	--	--
3. Egypt	--	--	--	--	--	--	--	--	--	543	--	543
4. Iraq	--	--	--	--	--	--	--	--	--	--	--	--
5. Kuwait	--	--	--	--	--	--	--	--	--	62	--	62
6. Libya	29	--	29	468	--	468	142	--	142	244	--	244
7. Qatar	--	--	--	--	--	--	--	--	--	--	--	--
8. Saudi Arabia	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	304	--	304	--	--	--	--	--	--	405	--	405
OAPEC Total	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
U.S. Total	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
OAPEC as a % of U.S. Total	1.3%	0.1%	0.6%	2.6%	(a)	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

(a) Less than one-tenth of one percent

SOURCE: U.S. Bureau of Mines and U.S. Bureau of Census

World Oil Movements
(Thousands of Barrels per Day)

1972

TO / FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	30	70	65	–	10	40	5	5	–	225
Canada	1,085	–	–	–	–	–	–	–	–	–	1,085
Caribbean	2,270	520	160	545	5	10	10	–	–	100	3,620
Other Western Hemisphere	45	–	25	–	–	–	30	–	–	–	100
Western Europe	160	15	–	–	40	–	–	–	20	90	325
Middle East	475	250	1,115	8,570	460	1,265	3,770	260	605	180	16,950
North Africa	230	30	250	2,730	10	–	5	–	220	–	3,475
West Africa	265	70	290	1,170	–	–	70	–	30	20	1,915
South East Asia	180	–	10	5	10	–	830	55	–	–	1,090
USSR/ Eastern Europe	20	–	130	970	75	–	25	–	40	–	1,260
Other Eastern Hemisphere	10	–	–	5	–	30	5	–	–	–	50
TOTAL IMPORTS	4,740	915	2,050	14,060	600	1,315	4,785	320	920	390	30,095

1973

TO / FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	30	55	85	5	25	30	–	–	–	230
Canada	1,335	–	–	–	–	–	–	–	–	–	1,335
Caribbean	2,540	500	130	355	5	5	10	–	–	85	3,630
Other Western Hemisphere	80	–	100	–	–	–	–	–	–	20	200
Western Europe	265	–	–	–	60	–	–	–	10	70	405
Middle East	820	320	1,000	10,350	535	1,315	4,385	290	775	180	19,970
North Africa	360	40	175	2,545	5	–	20	–	265	10	3,420
West Africa	515	90	415	1,030	–	–	110	–	5	–	2,165
South East Asia	240	–	–	10	–	–	1,115	40	–	–	1,405
USSR/ Eastern Europe	35	–	145	935	75	5	55	–	20	15	1,285
Other Eastern Hemisphere	15	–	–	–	–	25	35	–	5	5	85
TOTAL IMPORTS	6,205	980	2,020	15,310	685	1,375	5,760	330	1,080	385	34,130

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1974

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	30	60	75	5	5	35	10	–	–	220
Canada	1,025	–	–	20	–	–	–	–	–	–	1,045
Caribbean	2,320	430	155	320	10	–	10	–	–	–	3,245
Other Western Hemisphere	125	–	120	–	–	–	–	–	–	–	245
Western Europe	240	–	–	–	80	–	15	–	35	95	465
Middle East	1,025	400	1,265	10,195	490	1,320	4,050	285	715	305	20,050
North Africa	230	15	130	1,915	10	–	70	–	255	–	2,625
West Africa	795	15	305	1,300	–	30	100	–	–	–	2,545
South East Asia	315	–	45	5	–	–	990	45	–	–	1,400
USSR/ E. Europe & China	30	–	160	1,010	60	–	120	–	20	–	1,400
Other Eastern Hemisphere	20	–	–	–	–	30	40	–	–	–	90
TOTAL IMPORTS	6,125	890	2,240	14,840	655	1,385	5,430	340	1,025	400	33,330

1975

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	20	65	70	5	–	30	10	10	–	210
Canada	800	–	–	–	–	–	–	–	–	–	800
Latin America	2,270	270	120	380	40	–	20	–	75	–	3,175
Western Europe	45	–	–	–	165	–	–	–	35	–	245
Middle East	1,140	540	1,525	8,815	475	1,450	3,675	255	630	–	18,505
North Africa	500	–	140	1,530	–	–	70	–	165	–	2,405
West Africa	850	20	200	835	–	–	70	–	–	–	1,975
East and South Africa	–	–	–	–	–	35	–	–	–	–	35
South Asia	–	–	–	5	–	–	–	–	–	–	5
South East Asia	400	–	80	–	10	–	885	80	–	–	1,455
Japan	–	–	–	5	–	–	–	–	–	–	5
Australasia	5	–	–	–	–	10	35	–	–	–	50
USSR/ E. Europe & China	15	–	210	970	15	70	160	–	30	–	1,470
TOTAL IMPORTS	6,025	850	2,340	12,610	710	1,565	4,945	345	945	–	30,335

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1976

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	10	70	80	10	5	30	5	10	–	220
Canada	595	–	–	5	–	–	–	–	–	–	600
Latin America	2,010	320	140	335	10	–	10	5	30	450	3,310
Western Europe	160	–	–	–	100	–	–	–	85	–	345
Middle East	1,910	385	1,725	9,405	490	1,630	3,955	255	710	390	20,855
North Africa	915	20	160	1,680	15	10	45	–	225	–	3,070
West Africa	1,085	30	230	860	–	–	25	–	–	–	2,230
East and South Africa	–	–	–	–	–	30	–	–	–	–	30
South East Asia	585	–	15	5	–	–	1,080	80	–	–	1,765
Japan	–	–	–	–	–	5	–	–	–	–	5
Australasia	10	–	–	–	–	5	40	–	–	–	55
USSR/ E. Europe & China	20	–	160	1,355	20	100	135	–	25	–	1,815
TOTAL IMPORTS	7,290	765	2,500	13,725	645	1,785	5,320	345	1,085	840	34,300

1977

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	25	105	75	5	–	30	5	5	–	250
Canada	540	–	–	–	–	–	–	–	–	–	540
Latin America	2,205	290	110	290	45	–	10	–	65	100	3,115
Western Europe	250	–	10	–	130	5	–	5	80	–	480
Middle East	2,560	395	1,570	8,855	485	1,600	4,095	240	805	125	20,730
North Africa	1,320	–	150	1,735	5	–	25	–	60	–	3,295
West Africa	1,220	–	275	845	–	–	–	–	30	–	2,370
East and South Africa	–	–	–	–	–	20	–	–	–	–	20
South Asia	–	–	–	–	–	–	–	–	–	–	–
South East Asia	590	–	–	20	5	–	1,155	90	5	50	1,915
Japan	–	–	–	–	–	5	–	–	–	–	5
Australasia	10	–	–	–	–	5	45	–	–	–	60
USSR/ E. Europe & China	15	–	180	1,475	5	120	150	–	30	–	1,975
TOTAL IMPORTS	8,710	710	2,400	13,295	680	1,755	5,510	340	1,080	275	34,755

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1978

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	90	90	85	10	5	30	5	50	–	365
Canada	445	–	–	–	–	–	–	–	–	–	445
Latin America	2,225	290	360	345	25	–	15	–	40	100	3,400
Western Europe	375	–	–	–	135	–	–	–	40	–	550
Middle East	2,300	275	1,525	8,685	425	1,610	4,010	250	515	135	19,730
North Africa	1,310	–	200	1,770	15	–	10	–	65	–	3,370
West Africa	975	–	300	780	60	–	–	–	–	–	2,115
East and South Africa	–	–	–	5	–	5	–	–	–	–	10
South Asia	–	–	–	5	–	–	–	–	–	–	5
South East Asia	570	–	–	20	15	–	1,085	100	–	–	1,790
Japan	5	–	–	–	–	10	–	–	–	–	15
Australasia	10	–	–	–	–	10	35	–	–	–	55
USSR/ E. Europe & China	10	–	200	1,395	25	200	150	–	30	–	2,010
TOTAL IMPORTS	8,225	655	2,675	13,090	710	1,840	5,335	355	740	235	33,860

1979

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	100	225	105	–	15	35	5	–	–	485
Canada	455	–	–	–	–	–	–	–	–	–	455
Latin America	2,410	230	210	270	25	–	10	–	135	355	3,645
Western Europe	350	–	–	–	145	–	–	–	25	–	520
Middle East	2,115	260	1,535	8,685	440	1,745	4,155	285	910	305	20,435
North Africa	1,355	20	120	1,870	20	–	15	–	25	–	3,425
West Africa	1,185	–	390	1,010	60	–	–	–	–	–	2,645
East and South Africa	–	–	–	–	–	10	–	–	–	–	10
South Asia	–	–	–	–	–	10	10	–	20	–	40
South East Asia	530	–	25	25	10	–	1,215	90	20	–	1,915
Japan	–	–	–	–	–	10	–	–	–	–	10
Australasia	10	–	–	–	–	–	15	–	–	–	25
USSR/ E. Europe & China	–	–	200	1,115	35	180	150	–	60	–	1,740
TOTAL IMPORTS	8,410	610	2,705	13,080	735	1,970	5,605	380	1,195	660	35,350

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1980

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	105	290	145	5	10	–	–	–	–	555
Canada	370	–	–	30	–	10	10	–	–	25	445
Latin America	2,050	215	275	625	50	–	80	5	235	350	3,885
Western Europe	355	5	–	–	85	5	–	–	10	-	460
Middle East	1,555	300	1,615	7,275	445	1,745	3,560	220	695	100	17,510
North Africa	1,015	5	135	1,440	15	–	55	–	155	–	2,820
West Africa	985	5	420	990	60	–	15	–	–	–	2,475
East and South Africa	–	–	–	–	–	10	–	–	–	–	10
South Asia	–	–	–	–	–	–	5	–	35	–	40
South East Asia	405	–	–	15	25	–	1,075	140	45	–	1,705
Japan	–	–	–	–	–	5	–	–	–	–	5
Australasia	–	–	–	5	–	10	5	–	–	–	20
USSR/ E. Europe & China	–	–	205	1,300	–	225	180	–	95	–	2,005
TOTAL IMPORTS	6,735	635	2,940	11,825	685	2,020	4,985	365	1,270	475	31,935

1981

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	95	260	135	5	40	40	10	10	10	605
Canada	425	–	5	15	5	–	–	–	–	5	455
Latin America	1,950	295	220	880	105	–	155	25	380	370	4,380
Western Europe	525	5	–	–	105	10	5	–	110	–	760
Middle East	1,255	195	1,395	5,750	385	1,755	3,020	180	555	115	14,605
North Africa	655	30	70	1,350	–	–	70	–	–	–	2,175
West Africa	720	5	285	660	40	–	20	–	–	–	1,730
East and South Africa	–	–	–	–	10	5	5	–	–	–	20
South Asia	–	–	–	–	–	5	5	5	30	–	45
South East Asia	395	–	–	50	20	–	950	95	150	–	1,660
Japan	–	–	–	–	–	5	–	5	–	–	10
Australasia	5	–	–	–	–	10	–	–	–	–	15
USSR/ E. Europe & China	20	–	185	1,405	–	240	190	–	155	–	2,195
TOTAL IMPORTS	5,950	625	2,420	10,245	675	2,070	4,460	320	1,390	500	28,655

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1982

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	90	315	225	10	65	75	10	10	15	815
Canada	470	–	–	10	–	–	5	–	–	–	485
Latin America	2,050	180	415	750	100	10	150	–	150	330	4,135
Western Europe	580	25	30	–	155	10	–	5	160	–	965
Middle East	770	95	920	4,625	275	1,640	2,755	155	425	–	11,660
North Africa	245	15	125	1,500	20	–	45	–	190	5	2,145
West Africa	605	5	105	700	45	–	–	–	40	–	1,500
East and South Africa	–	–	–	–	20	5	–	–	–	–	25
South Asia	–	–	–	45	–	5	5	5	10	–	70
South East Asia	275	–	–	25	20	–	890	135	135	–	1,480
Japan	–	–	–	5	–	5	–	5	–	–	15
Australasia	5	–	–	–	–	–	20	–	–	–	25
USSR/ E. Europe & China	40	–	200	1,465	–	240	210	5	85	–	2,245
TOTAL IMPORTS	5,040	410	2,110	9,350	645	1,980	4,155	320	1,205	350	25,565

1983

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	80	255	185	15	80	105	15	5	–	740
Canada	540	–	–	–	–	–	5	–	–	–	545
Latin America	2,160	125	425	820	65	5	180	5	160	120	4,065
Western Europe	550	15	25	–	145	5	–	5	105	10	860
Middle East	575	60	855	3,415	405	1,615	2,750	120	545	15	10,355
North Africa	280	25	60	1,675	5	–	40	–	95	–	2,180
West Africa	475	15	115	755	25	–	5	–	35	–	1,425
East and South Africa	–	–	–	–	–	5	–	–	–	–	5
South Asia	–	–	–	5	10	25	15	10	–	–	65
South East Asia	345	–	–	25	20	–	780	85	55	90	1,400
Japan	–	–	–	–	–	10	–	–	–	–	10
Australasia	5	–	–	–	–	10	30	–	5	–	50
USSR/ E. Europe & China	60	–	220	1,785	–	240	235	5	110	–	2,655
TOTAL IMPORTS	4,990	320	1,955	8,665	690	1,995	4,145	245	1,115	235	24,355

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1984

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	85	255	205	10	60	90	10	5	–	720
Canada	625	–	–	–	–	–	5	–	–	25	655
Latin America	2,255	125	420	875	65	–	185	–	120	55	4,100
Western Europe	620	25	40	–	80	–	–	5	75	15	860
Middle East	615	70	700	3,045	340	1,555	2,830	110	525	55	9,845
North Africa	315	30	80	1,650	35	–	25	–	155	–	2,290
West Africa	445	5	105	965	55	–	–	–	40	55	1,670
East & South Africa	–	–	–	–	5	–	–	–	–	10	15
South Asia	–	–	–	20	5	10	15	–	–	5	55
South East Asia	375	–	–	35	10	–	880	105	65	130	1,600
Japan	–	–	–	–	–	10	–	–	–	5	15
Australasia	40	–	–	–	–	15	5	–	–	–	60
USSR/ E. Europe & China	90	0	200	1,800	–	385	270	–	120	–	2,865
TOTAL IMPORTS	5,380	340	1,800	8,595	605	2,035	4,305	230	1,105	355	24,750

1985

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	70	285	165	10	65	105	5	5	60	770
Canada	750	–	–	5	–	–	–	–	–	–	755
Latin America	2,005	120	320	805	55	70	145	–	45	–	3,565
Western Europe	470	70	15	–	65	5	5	–	95	85	805
Middle East	425	50	635	3,020	350	1,390	2,715	65	690	–	9,340
North Africa	205	35	100	1,725	20	–	55	–	275	–	2,415
West Africa	505	10	170	965	80	10	–	–	25	–	1,765
East and South Africa	–	–	–	–	15	–	–	–	–	–	15
South Asia	–	–	–	20	–	5	10	–	–	10	45
South East Asia	410	–	–	50	30	–	815	100	80	75	1,555
Japan	–	–	–	–	–	15	–	–	–	–	15
Australasia	40	–	–	–	–	40	65	–	–	–	145
USSR/ E.Europe & China	100	–	295	1,610	5	465	280	–	1,610	50	4,415
TOTAL IMPORTS	4,910	355	1,820	8,365	630	2,065	4,195	170	2,825	280	25,605

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1986

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	240	205	5	75	35	10	30	80	765
Canada	670	--	--	5	--	--	--	--	--	--	675
Latin America	2,205	75	160	630	55	80	210	--	70	115	3,600
Western Europe	615	130	25	--	110	--	15	--	90	105	1,090
Middle East	915	95	570	3,520	335	1,430	2,715	100	930	270	10,880
North Africa	275	--	--	1,830	15	--	30	--	365	--	2,515
West Africa	640	45	150	1,060	80	--	--	--	5	--	1,980
East and South Africa	--	--	--	5	--	--	--	--	--	--	5
South Asia	20	--	--	15	--	--	15	10	--	--	60
South East Asia	525	--	--	5	5	--	795	70	110	40	1,550
Japan	--	--	--	--	--	10	--	--	10	--	20
Australasia	30	--	--	--	--	30	45	--	--	--	105
USSR/ E.Europe & China	150	--	475	1,585	--	350	280	--	1,570	35	4,445
TOTAL IMPORTS	6,045	430	1,620	8,860	605	1,975	4,140	190	3,180	645	27,690

1987

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	295	180	5	70	30	15	10	55	745
Canada	610	--	--	5	--	--	15	--	--	--	630
Latin America	2,170	50	--	245	--	20	190	5	--	355	3,035
Western Europe	585	150	25	--	120	5	--	5	50	115	1,055
Middle East	1,120	35	255	3,375	330	1,555	2,710	110	825	--	10,315
North Africa	340	--	10	1,605	--	35	40	--	405	--	2,435
West Africa	855	25	60	835	60	5	5	--	35	--	1,880
East and South Africa	--	--	--	5	--	--	--	--	--	--	5
South Asia	25	--	--	5	--	5	15	5	--	--	55
South East Asia	330	--	10	5	--	--	825	80	50	55	1,355
Japan	5	--	--	--	--	20	--	--	5	--	30
Australasia	55	--	--	--	--	50	35	--	--	--	140
USSR/ E. Europe and China	150	--	345	1,645	30	255	260	--	1,690	105	4,480
TOTAL IMPORTS	6,245	345	1,000	7,905	545	2,020	4,125	220	3,070	685	26,160

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1988

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	86	258	162	4	94	50	19	12	9	694
Canada	682	–	–	9	–	–	4	3	6	–	704
Latin America	2,084	103	–	628	–	34	189	–	–	55	3,093
Western Europe	649	203	11	–	84	14	9	3	84	2	1,059
Middle East	1,601	57	367	3,554	382	2,059	2,797	147	878	–	11,842
North Africa	333	–	–	1,898	–	133	58	–	176	–	2,598
West Africa	894	44	128	826	86	26	6	–	–	12	2,022
East and South Africa	1	–	–	–	–	–	–	1	–	–	2
South Asia	30	–	–	–	–	3	37	3	–	–	73
South East Asia	242	–	8	23	–	12	909	80	33	–	1,307
Japan	1	–	–	–	–	15	–	–	–	1	17
Australasia	53	1	–	–	–	74	35	–	1	–	164
USSR/ E.Europe & China	180	–	274	2,004	16	434	318	2	1,849	574	5,651
TOTAL IMPORTS	6,750	494	1,046	9,104	572	2,898	4,412	258	3,039	653	29,226

1989

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	92	333	163	4	58	122	24	12	9	817
Canada	921	–	–	4	–	6	6	–	–	7	944
Latin America	2,586	90	–	587	–	13	166	2	1	66	3,511
Western Europe	585	196	6	–	124	30	7	10	72	300	1,330
Middle East	1,896	70	412	3,938	312	2,581	3,030	195	955	–	13,389
North Africa	296	1	–	1,930	–	14	16	1	157	–	2,415
West Africa	1,202	64	–	797	182	62	12	–	–	–	2,319
East and South Africa	26	–	–	8	–	–	–	–	–	–	34
South Asia	36	–	–	2	–	26	5	5	1	–	75
South East Asia	271	–	50	7	29	12	858	87	135	234	1,683
Japan	3	–	–	–	–	49	–	–	6	1	59
Australasia	35	–	1	–	–	93	27	–	11	51	218
USSR/ E.Europe & China	162	5	402	1,948	15	457	300	4	1,186	185	4,664
TOTAL IMPORTS	8,019	518	1,204	9,384	666	3,401	4,549	328	2,536	853	31,458

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1990

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	97	309	214	3	125	96	21	16	8	889
Canada	932	–	1	3	–	8	5	–	–	6	955
Latin America	2,618	81	–	561	–	27	158	1	–	308	3,754
Western Europe	548	353	8	–	60	9	9	6	133	509	1,635
Middle East	2,026	78	164	4,001	354	3,126	3,245	250	406	562	14,212
North Africa	322	7	–	2,051	–	3	14	1	206	–	2,604
West Africa	1,148	51	–	854	164	14	17	–	–	–	2,248
East and South Africa	23	–	–	–	–	–	–	–	–	–	23
South Asia	30	–	–	5	–	44	2	1	2	–	84
Other Asia	183	–	19	7	–	5	917	93	–	274	1,498
Japan	1	–	–	–	–	73	–	1	–	–	75
Australasia	53	–	–	4	–	19	26	–	–	103	205
USSR/ C. Europe & China	142	4	257	2,047	32	319	313	7	1,272	100	4,493
TOTAL IMPORTS	8,026	671	758	9,747	613	3,772	4,802	381	2,035	1,870	32,675

(a) Includes changes in the quantity of oil in transit, transit losses, minor increments not otherwise shown, unidentified military use, etc.

SOURCE: BP Statistical Review of World Energy

Historical United States Imports of Crude Oil and Refined Products: 1918-1946

Year	Crude Oil		Refined Products	
	Thous. of Bbls	Thous. of B/D	Thous. of Bbls	Thous. of B/D
1918	5,884	16	62,128	170
1919	6,348	17	57,500	158
1920	9,295	25	70,281	192
1921	9,627	26	62,215	170
1922	10,805	30	63,759	175
1923	17,534	48	84,713	232
1924	18,239	50	99,291	271
1925	13,337	37	100,841	276
1926	15,407	42	116,881	320
1927	15,844	43	126,159	346
1928	18,966	52	136,374	373
1929	26,401	72	137,133	376
1930	23,705	65	133,164	365
1931	25,535	70	99,146	272
1932	27,393	75	76,134	208
1933	36,584	100	70,430	193
1934	41,127	113	73,707	202
1935	51,430	141	77,925	213
1936	50,313	137	82,056	224
1937	67,234	184	106,077	291
1938	77,254	212	116,891	320
1939	72,076	197	117,473	322
1940	51,496	141	78,970	216
1941	33,238	91	75,592	207
1942	33,834	93	83,073	228
1943	41,342	113	108,615	298
1944	34,238	94	173,378	474
1945	32,998	90	149,985	411
1946	42,436	116	110,687	303

SOURCE: U.S. Bureau of Mines, Minerals Industry Surveys and "Annual Petroleum Statements".

BASIC PETROLEUM DATA BOOK

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Crude Oil and Its Products

Table 2. U.S. Exports of Petroleum to Selected Areas

Table 3. African Oil Exports to Selected Areas

Table 4. Middle East Oil Exports to Selected Areas

Table 5. The Role of Middle East and African Oil in Western European and Japanese Consumption

Table 6. The Role of Middle East and African Oil in World Exports

Section X
Table 1

Total U. S. Domestic Production and Exports of Crude Oil and its Products
(Thousands of barrels)

Year	Production(a)	Exports	Exports as a % of U.S. Production
1947	1,989,850	164,477	8.3
1948	2,167,264	134,674	6.2
1949	1,999,215	119,376	6.0
1950	2,155,693	111,306	5.2
1951	2,452,465	154,052	6.3
1952	2,513,351	158,188	6.3
1953	2,596,661	146,591	5.6
1954	2,567,121	129,733	5.1
1955	2,765,799	134,188	4.9
1956	2,910,010	157,386	5.4
1957	2,911,891	207,187	7.1
1958	2,743,736	100,638	3.7
1959	2,895,347	77,067	2.7
1960	2,915,090	73,906	2.5
1961	2,983,447	63,563	2.1
1962	3,048,894	61,390	2.0
1963	3,153,609	75,914	2.4
1964	3,209,293	73,879	2.3
1965	3,290,070	68,288	2.1
1966	3,496,398	72,400	2.1
1967	3,730,198	112,060	3.0
1968	3,879,353	84,544	2.2
1969	3,951,992	84,885	2.1
1970	4,123,366	94,458	2.3
1971	4,071,729	81,685	2.0
1972	4,093,584	81,389	2.0
1973	3,995,326	84,413	2.1
1974	3,818,683	80,491	2.1
1975	3,652,737	76,428	2.1
1976	3,563,225	81,599	2.3
1977	3,599,720	88,588	2.5
1978	3,750,302	132,057	3.5
1979	3,699,333	171,856	4.6
1980	3,722,152	199,256	5.4
1981	3,715,743	217,024	5.8
1982	3,722,591	297,514	8.0
1983	3,730,085	269,890	7.2
1984	3,846,173	264,077	6.9
1985	3,861,911	285,069	7.4
1986	3,734,252	286,373	7.7
1987	3,629,669	278,731	7.7
1988	3,573,815	298,466	8.4
1989	3,342,898	313,460	9.4
1990	3,253,686	312,671	9.6

(a) Figures include crude oil, lease condensate, and natural gas liquids.

SOURCE: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

	Canada		Mexico		Caribbean(a)		Other Latin American		United Kingdom	
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products
1947	39,058	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565
1948	33,298	20,629	62	4,157	1,498	8,788	1,417	3,439	471	16,223
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410
1950(b)	30,708	15,953	–	6,229	1,829	7,278	661	4,141	441	5,868
1951(b)	21,172	17,867	–	7,034	2,167	9,729	1,356	3,932	457	13,914
1952(b)	20,172	25,211	–	7,130	2,513	13,703	1,789	4,295	499	9,889
1953(b)	14,025	26,939	–	8,281	2,620	10,399	1,081	3,515	418	9,201
1954(b)	8,130	22,635	–	12,003	2,928	7,185	608	5,003	462	7,687
1955(b)	6,501	20,329	–	16,062	3,136	7,713	236	6,426	532	8,875
1956(b)	5,570	20,560	–	16,485	3,262	9,979	–	5,007	5,238	10,831
1957(b)	8,240	18,307	902	15,950	3,283	11,120	–	7,110	14,880	19,660
1958(b)	1,153	13,497	696	11,568	592	7,977	–	3,661	378	6,010
1959	–	16,061	21	8,297	–	3,978	–	4,753	405	6,592
1960	–	12,622	–	6,428	–	3,315	–	4,131	433	3,840
1961	20	8,381	133	4,415	–	3,721	1	3,143	437	3,268
1962	8	7,706	–	4,981	–	2,888	–	3,417	428	2,616
1963	2	7,985	3	6,889	–	3,481	–	3,036	424	3,443
1964	7	9,791	3	8,920	–	4,503	–	3,656	336	3,191
1965	12	9,619	333	9,452	–	3,322	1	2,635	352	3,924
1966	2	11,715	203	13,955	–	2,179	–	3,240	431	3,784
1967	3,688	14,521	18	12,999	645	3,479	–	4,444	16,959	5,562
1968	5	14,126	114	11,140	283	1,603	–	5,138	352	4,838
1969	30	16,017	1	12,098	220	2,511	–	5,829	430	4,421
1970	328	10,855	–	12,142	4,264	3,272	–	4,565	176	4,185
1971	60	9,384	–	15,180	181	4,474	–	5,484	120	3,053
1972	–	9,599	–	15,061	–	3,888	–	4,374	–	3,705
1973	–	11,427	–	15,984	–	3,614	–	4,294	–	3,249
1974	108	11,504	–	12,885	966	3,023	–	4,005	–	2,317
1975	19	8,139	–	15,425	2,127	3,114	–	3,386	–	2,636
1976	2,241	8,096	–	12,677	700	8,772	–	3,474	–	2,732
1977	16,460	9,548	–	8,893	1,796	3,566	–	3,338	–	3,136
1978	28,761	10,640	–	9,877	28,967	3,373	–	4,459	–	2,447
1979	26,079	10,299	–	7,835	59,628	3,538	–	4,718	–	2,493
1980(c)	30,567	8,822	–	10,085	74,367	9,942	–	4,006	–	2,386
1981(c)	16,440	16,102	–	9,416	65,104	18,692	–	2,781	–	1,971
1982(c)	13,083	18,019	–	19,464	67,633	23,531	–	6,714	–	5,167
1983(c)	6,781	21,047	–	8,812	46,431	21,026	–	6,966	–	3,047
1984(c)	5,784	24,672	–	12,681	49,498	20,570	–	11,046	–	5,291
1985(c)	7,523	19,463	–	22,187	55,019	20,772	–	10,174	–	5,210
1986(c)	6,040	25,027	–	20,525	39,954	20,225	–	11,408	–	3,095
1987(c)	5,988	24,247	–	25,544	47,864	27,966	–	6,943	7	2,359
1988(c)	3,737	26,897	–	25,764	52,024	19,959	–	16,949	–	3,370
1989(c)	2,739	30,935	–	32,544	48,044	21,566	–	21,019	–	3,443
1990(c)	3,974	29,363	–	32,623	35,287	24,025	–	17,909	–	3,863

See notes and sources at end of table

Section X
Table 2a

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

	Other European		Middle East		Japan		Other Australasian		Africa		
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Total U.S. Exports
1947	4,424	20,674	N.A.	N.A.	–	–	–	14,565	–	2,736	164,477
1948	2,991	13,150	N.A.	N.A.	–	–	–	8,570	–	2,400	134,674
1949	547	12,423	N.A.	N.A.	–	364	–	7,176	–	2,922	119,376
1950(b)	851	8,227	N.A.	N.A.	334	92	–	2,953	–	1,916	111,306
1951(b)	1,048	12,284	N.A.	N.A.	2,403	4,878	–	11,406	–	4,783	154,052
1952(b)	976	9,466	N.A.	N.A.	748	7,286	–	13,126	–	5,896	158,188
1953(b)	926	7,809	N.A.	N.A.	862	10,508	–	8,740	–	5,043	146,591
1954(b)	745	5,424	N.A.	N.A.	726	8,166	–	5,996	–	2,734	129,733
1955(b)	650	7,385	N.A.	N.A.	515	11,282	–	4,363	–	1,636	134,188
1956(b)	13,377	14,560	N.A.	N.A.	1,055	9,790	–	4,309	122	2,154	157,386
1957(b)	21,003	29,660	N.A.	N.A.	1,057	13,642	339	6,431	539	3,328	207,187
1958(b)	450	9,420	N.A.	N.A.	1,076	12,486	–	4,491	–	2,368	100,638
1959	550	9,515	N.A.	N.A.	1,548	16,153	–	5,819	–	2,383	77,067
1960	568	10,395	N.A.	N.A.	2,086	20,595	-	5,891	–	2,332	73,906
1961	355	9,401	N.A.	N.A.	2,218	19,255	55	5,930	–	1,686	63,563
1962	–	10,290	N.A.	N.A.	1,354	18,333	–	6,544	–	2,655	61,390
1963	1	19,933	N.A.	N.A.	1,266	20,080	1	7,316	–	3,066	76,926
1964	–	14,387	N.A.	N.A.	952	19,429	63	6,602	–	2,206	74,046
1965	–	13,365	N.A.	N.A.	306	14,466	–	7,648	–	1,596	68,288
1966	1	13,522	N.A.	N.A.	808	12,283	31	7,077	1	2,019	72,400
1967	4,604	15,318	N.A.	N.A.	626	17,938	–	7,299	1	2,179	112,060
1968	–	14,912	N.A.	N.A.	1,048	19,566	–	7,779	–	2,026	84,545
1969	–	17,005	N.A.	N.A.	755	16,314	–	7,364	–	1,849	84,885
1970	–	20,250	N.A.	N.A.	223	24,868	–	6,433	–	1,475	94,458
1971	–	19,406	–	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	–	24,033	–	1,158	187	11,475	–	6,165	–	1,744	81,389
1973	177	24,863	–	957	520	11,782	–	5,888	–	1,658	84,413
1974	–	24,238	–	1,146	–	13,809	–	4,728	–	1,762	80,491
1975	–	24,846	–	995	–	10,012	–	3,550	–	2,179	76,428
1976	–	27,220	–	1,280	–	9,326	–	3,725	–	1,356	81,599
1977	–	25,933	–	1,034	–	8,951	–	4,213	–	1,721	88,588
1978	–	26,457	–	1,380	–	9,642	–	4,802	–	1,252	132,057
1979	–	37,497	–	1,085	–	12,543	–	4,416	–	1,725	171,856
1980(c)	–	34,885	–	1,291	–	11,596	–	9,028	–	2,280	199,256
1981(c)	–	47,710	–	1,912	–	14,014	7	16,715	–	2,595	217,024
1982(c)	–	77,969	–	2,182	–	24,836	–	28,077	–	2,791	297,514
1983(c)	–	66,025	–	1,808	–	38,132	–	35,904	–	3,097	269,854
1984(c)	–	56,913	–	1,750	–	33,657	–	24,263	–	2,724	264,077
1985(c)	–	55,580	–	1,315	–	39,468	–	18,215	–	2,668	285,069
1986(c)	–	70,183	–	2,375	–	39,975	–	30,592	–	2,345	286,373
1987(c)	–	56,432	–	3,107	–	43,799	1,105	29,693	–	1,337	278,732
1988(c)	–	58,048	–	2,270	–	45,435	951	40,398	–	1,541	298,466
1989(c)	–	57,221	–	2,860	–	44,528	900	43,181	–	1,173	313,460
1990(c)	–	71,907	–	4,128	–	33,741	392	51,594	–	1,046	312,671

See notes and sources at end of table

United States Exports of Petroleum to Selected Areas (Thousands of Barrels)

N.A. Not Available
(a) As of 1971 includes exports to Puerto Rico and Virgin Islands.
(b) Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419
(c) Includes exports to Greenland and other.

SOURCE: 1947-1974: U.S. Bureau of Mines, Minerals Yearbook.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section X
Table 3

African Oil Exports to Selected Areas
(Thousands of barrels per day)

Year(a	United States	Western Europe	Japan	All Others	African Exports
1960	--	237	--	--	237
1961	5	430	--	--	435
1962	25	740	--	--	765
1963	25	1,125	--	30	1,180
1964	55	1,565	--	30	1,650
1965	70	2,040	--	30	2,140
1966	90	2,540	5	130	2,765
1967	55	2,700	--	155	2,910
1968	170	3,535	5	165	3,875
1969	330	4,370	15	230	4,945
1970	125	5,330	50	300	5,805
1971	195	4,430	60	805	5,490
1972	495	3,900	75	920	5,390
1973	875	3,575	130	1,005	5,585
1974	1,025	3,215	170	760	5,170
1975	1,350	2,365	140	560	4,415
1976	2,000	2,540	70	720	5,330
1977	2,540	2,580	25	540	5,685
1978	2,285	2,555	10	645	5,495
1979	2,540	2,880	15	645	6,080
1980	2,000	2,430	70	805	5,305
1981	1,375	2,010	95	445	3,925
1982	850	2,200	45	575	3,670
1983	755	2,430	45	380	3,610
1984	760	2,615	25	575	3,975
1985	705	2,690	55	745	4,195
1986	915	2,895	30	660	4,500
1987	1,195	2,445	45	635	4,320
1988	1,228	2,724	64	606	4,622
1989	1,524	2,735	28	481	4,768
1990	1,493	2,905	31	446	4,875

(a) Not available prior to 1960

SOURCE: "BP Statistical Review of World Energy," Annual

Middle East Oil Exports to Selected Areas
(Thousands of barrels per day)

Year(a	United States	Western Europe	Japan	All Others	Middle East Exports
1959	355	2,528	–	1,060	4,120
1960	347	2,724	–	1,619	4,690
1961	345	2,855	610	1,280	5,090
1962	315	3,060	720	1,490	5,585
1963	295	3,400	920	1,540	6,155
1964	310	3,740	1,115	1,760	6,925
1965	350	4,195	1,435	1,630	7,610
1966	320	4,375	1,650	2,280	8,625
1967	200	4,605	2,035	2,305	9,145
1968	270	5,065	2,650	2,460	10,445
1969	265	5,780	3,055	2,425	11,525
1970	175	6,220	3,485	2,835	12,715
1971	390	7,685	3,810	3,365	15,250
1972	475	8,570	3,770	4,135	16,950
1973	820	10,350	4,385	4,415	19,970
1974	1,025	10,195	4,050	4,780	20,050
1975	1,140	8,815	3,675	4,875	18,505
1976	1,910	9,405	3,955	5,585	20,855
1977	2,560	8,855	4,095	5,220	20,730
1978	2,300	8,685	4,010	4,735	19,730
1979	2,115	8,685	4,155	5,480	20,435
1980	1,555	7,275	3,560	5,120	17,510
1981	1,255	5,750	3,020	4,580	14,605
1982	770	4,625	2,755	3,510	11,660
1983	575	3,415	2,750	3,615	10,355
1984	615	3,045	2,830	3,355	9,845
1985	425	3,020	2,715	3,180	9,340
1986	915	3,520	2,715	3,730	10,880
1987	1,120	3,375	2,710	3,110	10,315
1988	1,601	3,554	2,797	3,890	11,842
1989	1,896	3,938	3,030	4,525	13,389
1990	2,026	4,001	3,245	4,940	14,212

(a) Not available prior to 1959.

SOURCE: BP Statistical Review of World Energy, Annual.

The Role of Middle East and African Oil in Western European and Japanese Consumption (Thousands of Barrels Per Day)

	Western Europe			Japan		
Year	Consumption	From the Middle East	From Africa	Consumption	From the Middle East	From Africa
1961	4,453	2,855	430	821	610	--
1962	5,128	3,060	740	934	720	--
1963	5,893	3,400	1,125	1,212	920	--
1964	6,692	3,740	1,565	1,484	1,115	--
1965	7,525	4,195	2,040	1,743	1,435	--
1966	8,360	4,375	2,540	1,979	1,650	5
1967	8,937	4,605	2,700	2,144	2,035	--
1968	9,958	5,065	3,535	2,660	2,650	5
1969	11,378	5,780	4,370	3,250	3,055	15
1970	12,364	6,220	5,330	3,847	3,485	50
1971	12,912	7,685	4,430	4,179	3,810	60
1972	13,847	8,570	3,900	4,364	3,770	75
1973	14,492	10,350	3,575	5,071	4,385	130
1974	13,681	10,195	3,215	4,960	4,050	170
1975	12,603	8,815	2,365	4,502	3,675	140
1976	13,448	9,405	2,540	4,771	3,955	70
1977	14,235	8,855	2,580	5,345	4,095	25
1978	14,630	8,685	2,555	5,420	4,010	10
1979	15,037	8,685	2,880	5,485	4,155	15
1980	13,826	7,275	2,430	4,935	3,560	70
1981	12,775	5,750	2,010	4,695	3,020	95
1982	12,210	4,625	2,200	4,395	2,755	45
1983	11,940	3,415	2,430	4,390	2,750	45
1984	12,050	3,045	2,615	4,620	2,830	25
1985	11,865	3,020	2,690	4,435	2,715	55
1986	12,340	3,520	2,895	4,495	2,715	30
1987	12,365	3,375	2,445	4,500	2,710	45
1988	12,525	3,554	2,724	4,805	2,797	64
1989	12,510	3,938	2,735	5,005	3,030	28
1990	13,045	4,001	2,905	5,255	3,245	31

SOURCE: 1961-1980: Western Europe and Japanese Consumption: U.S. Energy Information Administration, International Petroleum Annual
1981-1990: Western Europe and Japanese Consumption: BP Statistical Review of World Energy
1961-1990: Middle East and African Exports: BP Statistical Review of World Energy

Section X
Table 6

The Role of Middle East and African Oil in World Exports
(Thousands of Barrels/Day)

	Middle East		Africa		Total World	
Year	Production	Exports	Production	Exports	Production	Exports
1961	5,633	5,090	489	435	22,428	9,870
1962	6,186	5,585	804	765	24,334	11,285
1963	6,812	6,155	1,190	1,180	26,132	12,205
1964	7,613	6,925	1,704	1,650	28,168	13,625
1965	8,367	7,610	2,224	2,140	30,308	15,110
1966	9,338	8,625	2,821	2,765	32,936	16,890
1967	10,048	9,145	3,117	2,910	35,382	17,905
1968	11,298	10,445	3,992	3,875	38,651	20,400
1969	12,447	11,525	5,069	4,945	41,706	22,640
1970	13,957	12,715	6,069	5,805	45,805	25,420
1971	16,381	15,250	5,645	5,490	48,391	27,285
1972	18,116	16,950	5,699	5,390	50,822	30,095
1973	21,219	19,970	5,922	5,585	55,803	34,130
1974	21,882	20,050	5,452	5,170	56,268	33,330
1975	19,619	18,505	5,003	4,415	53,418	30,335
1976	22,174	20,855	5,832	5,330	58,059	34,300
1977	22,600	20,730	6,236	5,685	62,620	34,755
1978	21,415	19,730	6,115	5,495	63,085	33,860
1979	21,558	20,435	6,640	6,080	62,658	35,350
1980	18,407	17,510	6,031	5,305	59,454	31,935
1981	15,752	14,605	4,581	3,925	55,837	28,655
1982	12,664	11,660	4,465	3,670	53,092	25,565
1983	11,550	10,335	4,410	3,610	52,625	24,355
1984	11,279	9,845	4,683	3,975	53,674	24,750
1985	10,305	9,340	4,855	4,195	52,931	25,605
1986	12,710	10,880	4,986	4,500	55,684	27,690
1987 (a)	13,125	10,315	5,290	4,320	60,150	26,160
1988	15,000	11,842	5,480	4,622	62,350	29,226
1989	16,590	13,389	5,945	4,768	63,560	32,088
1990	17,215	14,212	6,535	4,875	64,875	31,441

(a) Beginning in 1987, production figures include crude oil, shale oil, oil sands and natural gas liquids.

SOURCE: 1961-1978: Total World, Middle East and African Production, U.S. Energy Information Administration, International Petroleum Annual
1979-1986: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1986: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry

BASIC PETROLEUM DATA BOOK

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Table 1

Estimated Worldwide Production of Crude Oil
Onshore vs Offshore

Year	Onshore Production	Offshore Production	Total World Production	Onshore Production	Offshore Production	Total World Production
Thousands of Barrels				Thousands of Barrels per day		
1969	12,961,336	2,261,175	15,222,511	35,511	6,195	41,706
1970	13,961,668	2,757,040	16,718,708	38,251	7,554	45,805
1971	14,649,885	3,012,906	17,662,793	40,126	8,255	48,381
1972	15,346,357	3,254,388	18,600,745	41,930	8,892	50,822
1973	16,729,330	3,638,651	20,367,981	45,835	9,968	55,803
1974	17,140,035	3,397,692	20,537,727	46,957	9,310	56,267
1975	16,316,198	3,186,137	19,502,335	44,689	8,729	53,418
1976	17,661,041	3,530,499	21,191,540	48,253	9,647	57,900
1977	17,738,887	4,161,808	21,900,695	48,600	11,402	60,002
1978	17,961,621	4,196,630	22,158,251	49,210	11,498	60,708
1979	18,139,390	4,625,660	22,765,050	49,852	12,518	62,370
1980	16,754,248	5,009,916	21,764,164	45,766	13,688	59,454
1981	15,395,719	4,984,786	20,380,505	42,180	13,657	55,837
1982	14,432,660	4,942,465	19,375,125	39,542	13,541	53,083
1983	14,199,839	5,011,085	19,210,924	38,904	13,729	52,633
1984	14,124,654	5,628,714	19,753,368	38,592	15,379	53,971
1985	13,967,228	5,521,720	19,488,948	38,266	15,128	53,394
1986	15,248,292	5,080,800	20,329,092	41,776	13,920	55,696
1987	14,846,368	5,322,795	20,169,163	40,675	14,583	55,258
1988	15,774,849	5,270,400	21,045,249	43,101	14,400	57,501
1989	15,973,888	5,410,030	21,383,918	43,764	14,822	58,586
1990	16,088,582	5,626,110	21,714,692	44,078	15,414	59,492

SOURCE: Total World Production: 1969-1979: U.S. Energy Information Administration.
1980-1990: Central Intelligence Agency
United States Offshore Production, U.S. Department of Interior and U.S. Department of Energy
Rest of World Offshore Production, Offshore Magazine

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Table 2

Estimated Worldwide Offshore Production of Crude Oil by Area

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
(Millions of Barrels)												
1970	583.5	897.9	43.4	1,524.8	760.7	239.8	133.2	4.4	2,662.9	94.2	NA	2,662.9
1971	625.7	908.9	69.4	1,604.0	913.4	233.9	158.4	12.0	2,921.7	91.3	NA	2,921.7
1972	621.3	915.0	82.4	1,618.7	1,040.5	276.3	216.7	15.8	3,168.0	86.4	NA	3,168.0
1973	583.4	985.5	65.8	1,634.7	1,282.2	323.2	287.5	24.7	3,552.3	86.1	NA	3,552.3
1974	535.7	756.0	73.7	1,365.4	1,262.7	380.3	275.1	29.9	3,313.4	84.3	NA	3,313.4
1975	496.5	634.0	97.4	1,227.9	1,070.3	364.9	323.2	116.5	3,102.8	83.2	NA	3,102.8
1976	467.8	613.9	107.1	1,188.8	1,198.2	384.6	407.6	270.9	3,450.1	80.5	NA	3,450.1
1977	439.2	456.3	107.7	1,003.2	1,648.0	490.2	549.7	396.0	4,087.1	74.8	NA	4,087.1
1978	416.3	395.7	103.7	915.7	1,734.8	414.3	525.6	532.5	4,122.9	73.7	NA	4,122.9
1979	398.6	383.3	255.1	1,037.0	1,934.1	355.5	490.6	736.6	4,553.8	71.9	NA	4,553.8
1980	379.7	401.1	281.8	1,062.6	2,132.4	349.2	541.7	850.2	4,936.1	73.9	NA	4,936.1
1981	385.4	381.1	503.0	1,269.5	1,936.3	308.8	539.5	858.5	4,912.6	72.3	NA	4,912.6
1982	405.3	374.5	733.3	1,512.9	1,497.2	297.5	589.1	981.1	4,877.1	65.3	NA	4,942.5
1983	436.5	411.7	747.9	1,596.1	1,322.0	310.3	603.7	1,114.3	4,946.5	64.6	NA	4,946.5
1984	469.6	402.6	851.3	1,723.5	1,473.9	382.1	725.8	1,261.2	5,566.5	62.2	NA	5,566.5
1985	456.3	347.1	857.4	1,660.8	1,432.6	371.2	724.2	1,271.7	5,460.8	61.0	NA	5,521.7
1986	457.7	328.5	857.4	1,643.6	1,183.0	322.3	677.4	1,192.8	5,018.8	62.1	NA	5,080.8
1987	436.5	387.6	852.3	1,676.4	1,245.0	407.0	662.1	1,254.9	5,245.4	77.4	NA	5,245.4
1988	435.9	362.0	834.1	1,632.0	1,149.2	524.5	683.7	1,204.1	5,193.5	76.9	NA	5,193.5
1989	411.4	340.2	863.2	1,614.8	1,119.5	506.6	787.3	1,307.8	5,335.6	74.5	NA	5,410.0
1990	394.9	333.2	904.8	1,633.0	1,185.2	520.1	858.8	1,375.3	5,572.5	NA	53.6	5,626.0
(Thousands of barrels per day)												
1970	1,599	2,460	119	4,178	2,084	657	365	12	7,296	258	NA	7,296
1971	1,714	2,490	190	4,394	2,503	641	434	33	8,005	250	NA	8,005
1972	1,698	2,500	225	4,423	2,843	755	592	43	8,656	236	NA	8,656
1973	1,598	2,700	180	4,478	3,513	885	788	68	9,732	236	NA	9,732
1974	1,468	2,071	202	3,741	3,460	1,042	754	82	9,079	231	NA	9,079
1975	1,360	1,737	267	3,364	2,932	1,000	886	319	8,501	228	NA	8,501
1976	1,278	1,677	293	3,248	3,542	783	1,114	740	9,427	220	NA	9,427
1977	1,203	1,250	295	2,748	4,960	898	1,506	1,085	11,197	205	NA	11,197
1978	1,141	1,084	284	2,509	5,195	693	1,440	1,459	11,296	202	NA	11,296
1979	1,092	1,050	699	2,841	5,149	974	1,344	2,018	12,326	192	NA	12,326
1980	1,037	1,096	770	2,903	5,826	954	1,480	2,323	13,486	202	NA	13,486
1981	1,056	1,044	1,378	3,478	5,305	846	1,478	2,352	13,459	198	NA	13,459
1982	1,110	1,026	2,009	4,145	4,102	815	1,614	2,688	13,362	179	NA	13,362
1983	1,196	1,128	2,049	4,373	3,622	850	1,654	3,053	13,552	177	NA	13,552
1984	1,283	1,100	2,326	4,709	4,027	1,044	1,983	3,446	15,209	170	NA	15,209
1985	1,250	951	2,349	4,550	3,925	1,017	1,984	3,484	14,961	167	NA	14,961
1986	1,254	900	2,349	4,503	3,241	883	1,856	3,268	13,750	170	NA	13,750
1987	1,196	1,062	2,335	4,593	3,411	1,115	1,814	3,438	14,371	212	NA	14,371

See notes and sources at end of table

Section XI
Table 2a

Estimated Worldwide Offshore Production of Crude Oil by Area

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
	(Thousands of barrels per day)											
1988	1,191	989	2,279	4,459	3,140	1,433	1,868	3,290	14,190	210	NA	14,190
1989	1,127	932	2,365	4,424	3,067	1,388	2,157	3,583	14,618	204	NA	14,618
1990	1,082	913	2,479	4,474	3,247	1,425	2,353	3,768	15,267	NA	147	15,414

(a) Data not available for prior years.
(b) Due to the political changes in the USSR and East Europe, the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region rather than political ideology.

SOURCE: United States: 1970-1971: U.S. Geological Survey
1972-1990: U.S. Energy Information Administration, Petroleum Supply Annual.
Rest of World: Offshore Magazine.

Section XI
Table 3

Production and Value of United States Crude Oil and Condensate
Onshore vs Offshore

Year	Production (Thousands of Barrels) Onshore	Offshore	Total	Dollar Value at Wellhead (Thousands of Dollars) Onshore(a)	Offshore(b)	Total
Cumulative to 1953	47,367,775	445,942	47,813,717	$81,119,901	$763,977	$81,883,878
1954	2,266,163	48,825	2,314,988	6,289,428	135,502	6,424,930
1955	2,423,885	60,543	2,484,428	6,702,949	167,431	6,870,380
1956	2,542,152	75,131	2,617,283	7,054,406	208,519	7,262,925
1957	2,531,581	85,320	2,616,901	7,815,875	263,384	8,079,259
1958	2,361,047	87,940	2,448,987	7,114,958	265,015	7,379,973
1959	2,471,886	102,704	2,574,590	7,175,225	298,111	7,473,336
1960	2,452,659	122,274	2,574,933	7,067,797	352,384	7,420,181
1961	2,483,272	138,486	2,621,758	7,165,968	399,614	7,565,582
1962	2,503,979	172,210	2,676,189	7,273,791	500,260	7,774,051
1963	2,554,958	197,765	2,752,723	7,393,484	572,259	7,965,743
1964	2,569,436	217,386	2,786,822	7,391,746	625,332	8,017,078
1965	2,606,936	241,578	2,848,514	7,466,393	691,905	8,158,298
1966	2,726,037	301,726	3,027,763	7,856,835	869,588	8,726,423
1967	2,847,820	367,922	3,215,742	8,303,050	1,072,677	9,375,727
1968	2,857,058	471,984	3,329,042	8,406,116	1,388,710	9,794,826
1969	2,841,469	530,282	3,371,751	8,786,876	1,639,804	10,426,680
1970	2,933,985	583,465	3,517,450	9,320,228	1,853,498	11,173,726
1971	2,828,217	625,697	3,453,914	9,574,694	2,118,304	11,692,998
1972	2,834,053	621,315	3,455,368	9,607,440	2,106,258	11,713,698
1973	2,777,538	583,365	3,360,903	10,791,444	2,266,461	13,057,905
1974	2,666,887	535,698	3,202,585	17,970,771	3,609,778	21,580,549
1975	2,560,242	496,537	3,056,779	19,361,086	3,754,973	23,116,059
1976	2,508,356	467,824	2,976,180	20,420,899	3,808,641	24,229,540
1977	2,546,187	439,173	2,985,360	21,996,649	3,794,073	25,790,722
1978	2,761,891	416,325	3,178,216	24,747,514	3,730,310	28,477,824
1979	2,722,715	398,595	3,121,310	34,064,477	4,986,855	39,051,332
1980	2,766,716	379,649	3,146,365	57,791,998	7,930,018	65,722,016
1981	2,743,203	385,421	3,128,624	87,151,743	12,244,641	99,396,384
1982	2,751,434	405,281	3,156,715	78,470,898	11,558,614	90,029,512
1983	2,734,512	436,487	3,170,999	71,616,869	11,431,595	83,048,464
1984	2,780,219	469,477	3,249,696	71,952,068	12,150,065	84,102,132
1985	2,818,450	456,103	3,274,553	67,896,461	10,987,521	78,883,982
1986	2,710,628	457,624	3,168,252	33,909,956	5,724,876	39,634,833
1987	2,610,699	436,679	3,047,378	40,204,765	6,724,857	46,929,621
1988	2,543,168	435,955	2,979,123	31,993,053	5,484,314	37,477,367
1989	2,367,552	411,221	2,778,773	37,549,375	6,521,965	44,071,340
1990(p)	2,289,757	394,930	2,684,687	45,863,833	7,910,448	53,774,281

(a) Total dollar value distributed in proportion to percentages of production onshore and offshore
(p) Preliminary.

SOURCE: Total U.S. Production and Total Dollar Value at Wellhead, through 1974: U.S. Bureau of Mines
Total U.S. production: 1975-1990: Energy Information Administration, Petroleum Supply Annuals.
U.S. offshore production: pre 1973: U.S. Geological Survey
U.S. offshore production: 1973-1974: U.S. Bureau of Mines
U.S. offshore production: 1975-1990: Energy Information Administration, Petroleum Supply Annuals.
Distribution of production and value computed by the American Petroleum Institute for 1975-1990.

Estimated Worldwide Production of Natural Gas
Onshore vs Offshore

Year	Onshore Production	Offshore Production	Total World Production	Onshore Production	Offshore Production	Total World Production
	Millions of cubic feet			**Millions of cubic feet per day**		
1970	32,763,671	5,330,290 (a)	38,093,961	89,763	14,604 (a)	104,367
1971	NA	NA	41,188,396	NA	NA	112,845
1972	NA	NA	43,524,559	NA	NA	118,920
1973	NA	NA	46,143,601	NA	NA	126,421
1974	NA	NA	47,178,520	NA	NA	129,256
1975	39,985,557	7,532,217	47,517,774	109,550	20,636	130,186
1976	37,455,724	10,849,960	48,305,684	102,338	29,645	131,983
1977	42,518,548	7,581,542	50,100,090	116,490	20,771	137,261
1978	42,210,443	9,538,859	51,749,302	115,645	26,134	141,779
1979	42,748,966	10,092,084	52,841,050	117,120	27,650	144,770
1980	43,949,440	10,189,646	54,139,086	120,080	27,841	147,921
1981	43,327,868	10,787,132	54,115,000	118,706	29,554	148,260
1982	43,023,688	10,671,312	53,695,000	117,874	29,236	147,110
1983	44,850,720	10,917,880	55,768,600	122,879	29,912	152,791
1984	45,619,370	12,972,870	58,592,240	124,643	35,445	160,088
1985	47,135,740	13,247,940	60,383,680	131,879	33,556	165,435
1986	49,042,445	12,438,835	61,481,280	134,363	34,079	168,442
1987	53,115,765	12,359,995	65,475,760	145,523	33,863	179,386
1988	55,892,940	12,162,180	68,055,120	153,222	33,230	186,452
1989	55,362,370	12,085,150	67,447,520	151,678	33,110	184,788
1990	55,467,526	12,286,320	67,753,846	151,968	33,661	185,627

(a) Does not reflect the total world offshore production since Communist Nation production figures are not available prior to 1973.

SOURCE: Offshore Production, 1970-1990: Offshore Magazine and U.S. Department of Interior
Total World Production, 1970-78: U.S. Energy Information Administration, World Natural Gas
1979-1980: Central Intelligence Agency, International Energy Statistical Review
1981-1990: British Petroleum, BP Statistical Reveiw of World Energy

Estimated Worldwide Offshore Production of Natural Gas by Area

	Western Hemisphere									
Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	USSR	Total World
	(Billions of cubic feet)									
1970	3,287.4	27.6	3,315.0	1,568.0	28.7	22.2	396.5	5,330.3	NA	NA
1971	3,590.9	26.8	3,617.7	214.3	NA	35.8	654.9	NA	NA	NA
1972	3,883.9	26.3	3,910.2	252.6	NA	44.6	937.1	NA	NA	NA
1973	3,976.5	28.3	4,004.8	263.4	NA	102.8	1,095.0	NA	244.6	NA
1974	4,246.5	39.9	4,286.4	259.7	NA	135.9	1,314.0	NA	264.6	NA
1975	4,164.7	54.0	4,218.7	1,396.1	114.6	132.1	1,388.1	7,249.7	282.5	7,532.2
1976	4,315.4	123.3	4,438.7	259.9	183.0	233.9	5,406.2	10,521.7	328.3	10,850.0
1977	4,496.9	134.7	4,631.6	334.0	79.9	464.6	1,707.8	7,218.0	363.5	7,581.5
1978	5,134.0	219.7	5,353.8	365.4	80.7	897.5	2,453.2	9,150.5	388.4	9,538.9
1979	5,444.9	201.5	5,646.4	362.1	182.5	759.9	2,717.4	9,668.3	423.8	10,092.1
1980	5,382.2	223.3	5,605.5	546.1	185.9	712.6	2,691.2	9,741.3	448.4	10,189.6
1981	5,546.5	495.3	6,041.8	259.2	123.7	793.5	3,082.8	10,301.0	486.2	10,787.1
1982	5,368.2	576.0	5,944.2	115.7	211.7	832.9	3,081.3	10,185.8	518.3	10,704.1
1983	4,587.8	583.6	5,162.4	529.3	304.4	1,190.6	3,181.3	10,368.0	540.9	10,908.9
1984	5,045.8	1,260.1	6,305.9	504.4	279.6	1,420.4	4,081.6	12,591.9	556.3	13,148.2
1985	4,421.4	1,252.0	5,673.8	504.4	44.9	1,416.6	4,070.5	10,710.2	538.4	11,248.6
1986	4,373.8	1,023.1	5,393.6	460.1	46.5	1,961.5	4,096.6	11,962.3	474.5	12,436.8
1987	4,819.6	1,006.8	5,826.4	497.5	46.5	1,821.0	3,611.7	11,805.1	511.0	12,316.1
1988	4,696.1	1,048.2	5,744.3	527.6	56.7	1,875.4	3,471.6	11,675.5	486.8	12,162.3
1989	4,602.9	667.6	5,270.6	548.6	52.2	2,088.9	3,635.4	11,595.7	489.5	12,085.1
1990	4,423.1	655.2	5,078.3	575.3	55.7	2,228.5	3,888.5	11,826.4	459.9	12,286.3
	(Millions of cubic feet per day)									
1970	9,007	75	9,082	4,296	79	61	1,086	14,604	NA	NA
1971	9,838	73	9,911	587	NA	98	1,794	NA	NA	NA
1972	10,612	72	10,684	690	NA	122	2,560	NA	NA	NA
1973	10,894	78	10,972	722	NA	282	3,000	NA	670	NA
1974	11,634	109	11,743	711	NA	372	3,600	NA	725	NA
1975	11,410	148	11,558	3,825	314	362	3,803	19,862	774	20,636
1976	11,791	337	12,128	710	500	639	14,771	28,748	897	29,645
1977	12,320	369	12,689	915	219	1,273	4,679	19,775	996	20,771
1978	14,066	602	14,668	1,001	221	2,459	6,721	25,070	1,064	26,134
1979	14,918	552	15,470	992	500	2,082	7,445	26,489	1,161	27,650
1980	14,706	610	15,316	1,492	508	1,947	7,353	26,616	1,225	27,841
1981	15,196	1,357	16,553	710	339	2,174	8,446	28,222	1,332	29,554
1982	14,707	1,488	16,195	317	580	2,282	8,442	27,816	1,420	29,236
1983	12,569	1,599	14,168	1,450	834	3,262	8,716	28,430	1,482	29,912
1984	13,786	3,443	17,229	1,382	764	3,675	10,875	33,925	1,520	35,445
1985	12,113	3,430	15,543	1,382	123	3,881	11,152	32,081	1,475	33,556
1986	11,983	2,803	14,786	1,257	133	5,374	11,229	32,779	1,300	34,079

See notes and sources at end of table

Section XI
Table 5a

Estimated Worldwide Offshore Production of Natural Gas by Area

	Western Hemisphere									
Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	USSR	Total World
	(Millions of cubic feet per day)									
1987	13,204	2,758	15,962	1,484	133	4,989	9,895	32,463	1,400	33,863
1988	12,831	2,864	15,695	1,441	155	5,124	9,485	31,900	1,330	33,230
1989	12,611	1,829	14,440	1,503	143	5,723	9,960	31,769	1,245	33,014
1990	12,118	1,795	13,913	1,576	153	6,107	10,653	32,401	1,260	33,661

NA = Not Available

SOURCE: U.S. Production--U.S. Department of Interior, Minerals Management Service.
Rest of World--Offshore Magazine

Production and Value of United States Natural Gas
Onshore - Offshore

Year	Production (Millions of Cubic Feet)			Dollar Value at Wellhead (Thousands of Dollars)		
	Onshore	Offshore	Total	Onshore(a)	Offshore(a)	Total
Cumulative to 1953	142,838,325	91,675	142,930,000	$ --	$ --	$ --
1954	8,671,935	70,611	8,742,546	875,370	7,131	882,501
1955	9,296,219	109,132	9,405,351	967,008	11,349	978,357
1956	9,957,253	124,670	10,081,923	1,070,405	13,407	1,083,812
1957	10,527,855	152,403	10,680,258	1,184,610	17,149	1,201,759
1958	10,806,691	223,607	11,030,298	1,290,786	26,706	1,317,492
1959	11,732,065	314,050	12,046,115	1,516,214	40,586	1,556,800
1960	12,362,872	408,166	12,771,038	1,732,763	57,207	1,789,970
1961	12,802,998	451,027	13,254,025	1,928,309	67,932	1,996,241
1962	13,246,639	629,983	13,876,622	2,047,904	97,397	2,145,301
1963	13,906,600	759,959	14,666,559	2,207,391	120,639	2,328,030
1964	14,622,301	839,842	15,462,143	2,257,990	129,699	2,387,689
1965	15,108,715	931,038	16,039,753	2,349,734	144,808	2,494,542
1966	15,846,670	1,359,958	17,206,628	2,489,133	213,626	2,702,759
1967	16,472,127	1,699,198	18,171,325	2,710,170	279,571	2,989,741
1968	17,002,857	2,319,543	19,322,400	2,788,319	380,369	3,168,688
1969	17,952,811	2,745,429	20,698,240	2,997,262	458,353	3,455,615
1970	18,633,254	3,287,388	21,920,642	3,183,940	561,740	3,745,680
1971	19,352,162	3,590,850	22,943,012	3,446,063	639,419	4,085,482
1972	18,647,813	3,883,885	22,531,698	3,459,876	720,586	4,180,462
1973	18,671,095	3,976,454	22,647,549	4,034,771	859,301	4,894,072
1974	17,354,017	4,246,505	21,600,522	5,281,137	1,292,265	6,573,402
1975	15,943,934	4,164,727	20,108,661	7,092,450	1,852,612	8,945,062
1976	15,637,042	4,315,396	19,952,438	9,069,032	2,502,744	11,571,776
1977	15,528,536	4,496,927	20,025,463	12,272,078	3,553,876	15,825,954
1978	14,839,994	5,134,039	19,974,033	13,430,195	4,646,305	18,076,500
1979	15,026,356	5,444,904	20,471,260	17,699,890	6,413,744	24,113,634
1980	14,996,551	5,382,236	20,378,787	23,586,880	8,465,302	32,052,182
1981	14,631,239	5,546,462	20,177,701	28,969,884	10,981,964	39,951,848
1982	13,053,625	5,466,050	18,519,675	32,075,219	13,421,546	45,496,765
1983	12,087,301	4,734,843	16,822,144	31,358,731	12,255,638	43,614,369
1984	13,009,577	5,220,061	18,229,638	34,560,892	13,843,719	48,404,611
1985	12,566,243	4,631,756	17,197,999	31,566,479	11,616,119	43,182,598
1986	12,202,344	4,588,566	16,790,910	23,705,889	8,901,936	32,607,825
1987	12,270,401	5,078,136	17,348,537	20,432,563	8,456,067	28,888,630
1988	12,670,039	5,171,435	17,841,474	21,425,617	8,745,134	30,170,751
1989	12,826,489	5,218,010	18,044,499	21,734,136	8,841,776	30,575,912
1990	13,052,284	5,509,312	18,561,596	22,255,698	9,402,478	31,658,176

See notes and sources at end of table

Production and Value of United States Natural Gas
Onshore - Offshore

(a) Total dollar value distributed in proportion to percentage of production onshore and offshore.

SOURCE: U.S. Total Production and Total Dollar Value at the Wellhead, 1953-1974: U.S. Bureau of Mines
1975-1989: U.S. Energy Information Administration, Natural Gas Annuals
U.S. Offshore Production, 1953-1974: U.S. Geological Survey
1975-1990: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

Total Offshore Wells Drilled in the United States (a)
Federal and State Leases
Alltime to January 1,1991

	Exploratory Wells				Development Wells				Total Wells			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
Alaska												
State	19	7	57	83	274	19	33	326	293	26	90	409
Federal	1	--	26	27	1	--	3	4	2	--	29	31
Total	20	7	83	110	275	19	36	330	295	26	119	440
California												
State	20	10	139	169	3,224	22	310	3,556	3,244	32	449	3,725
Federal	25	0	166	191	391	7	21	419	416	7	187	610
Total	45	10	305	360	3,615	29	331	3,975	3,660	39	636	4,335
Oregon												
Federal	--	--	8	8	--	--	--	--	--	--	8	8
Washington												
State	--	--	2	2	--	--	--	--	--	--	2	2
Federal	--	--	4	4	--	--	--	--	--	--	4	4
Total	--	--	6	6	--	--	--	--	--	--	6	6
Pacific Coast												
Federal	2	--	39	41	15	--	1	16	17	--	40	57
Pacific Ocean												
State	39	17	198	254	3,498	41	343	3,882	3,537	58	541	4,136
Federal	28	--	243	271	407	7	25	439	435	7	268	710
Total	67	17	441	525	3,905	48	368	4,321	3,972	65	809	4,846
Florida												
State	--	--	15	15	--	--	--	--	--	--	15	15
Federal	--	--	9	9	--	--	--	--	--	--	9	9
Total	--	--	24	24	--	--	--	--	--	--	24	24
Louisiana												
State	65	113	1,001	1,179	1,923	587	854	3,364	1,988	700	1,855	4,543
Federal	212	304	3,664	4,180	6,804	4,174	4,346	15,324	7,016	4,478	8,010	19,504
Total	277	417	4,665	5,359	8,727	4,761	5,200	18,688	9,004	5,178	9,865	24,047
Texas												
State	40	213	735	988	59	161	128	348	99	374	863	1,336
Federal	11	110	1,277	1,398	66	462	666	1,194	77	572	1,943	2,592
Total	51	323	2,012	2,386	125	623	794	1,542	176	946	2,806	3,928

See notes and sources at end of table

Total Offshore Wells Drilled in the United States (a)
Federal and State Leases
Alltime to January 1,1991

	Exploratory Wells				Development Wells				Total Wells			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
N. Gulf of Mexico												
State	1	0	0	1	1	0	0	1	2	0	0	2
Federal	10	14	349	373	75	35	81	191	85	49	430	564
Total	11	14	349	374	76	35	81	192	87	49	430	566
Mississippi												
State	0	0	1	1	0	0	0	0	0	0	1	1
Federal	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	0	0	0	0	0	0	1	1
Alabama	--	4	3	7	0	3	2	5	0	7	5	12
State	--	3	0	3	0	0	0	0	0	3	0	3
Federal	--	7	3	10	0	3	2	5	0	10	5	15
Total												
Gulf of Mexico												
State	106	330	1,755	2,191	1,983	751	984	3,718	2,089	1,081	2,739	5,909
Federal	233	431	5,299	5,963	6,945	4,671	5,093	16,709	7,178	5,102	10,392	22,672
Total	339	761	7,054	8,154	8,928	5,422	6,077	20,427	9,267	6,183	13,131	28,581
Atlantic Ocean												
Federal	--	--	36	36	--	--	--	--	--	--	36	36
Grand Total												
State	145	347	1,953	2,445	5,481	792	1,327	7,600	5,626	1,139	3,280	10,045
Federal	261	431	5,578	6,270	7,352	4,678	5,118	17,148	7,613	5,109	10,696	23,418
Total	406	778	7,531	8,715	12,833	5,470	6,445	24,748	13,239	6,248	13,976	33,463

(a) Offshore wells are defined as those producing from beyond natural shore lines.

Source: American Petroleum Institute

Accumulated Production State and Federal Offshore Leases
Alltime to January 1, 1989

	Oil & Lease Condensate M bbls	Percent of Total	Natural Gas MMCF	Percent of Total
Alaska				
State	904,619	100%	1,530,834	100%
Federal	--	--	--	--
California				
State	2,081,584	82%	799,901	70%
Federal	468,217	18%	346,936	30%
Subtotal	2,549,801		1,146,837	
West Coast				
State	2,986,203	86%	2,330,735	87%
Federal	468,217	14%	346,936	13%
Subtotal	3,454,420		2,677,671	
Louisiana				
State	1,486,315	16%	11,057,294	13%
Federal	7,823,327	84%	75,807,382	87%
Subtotal	9,309,642		86,864,676	
Texas				
State	37,343	14%	3,520,594	23%
Federal	228,212	86%	11,497,410	77%
Subtotal	265,556		15,018,004	
Gulf of Mexico				
State	1,523,658	16%	14,577,888	14%
Federal	8,051,539	84%	87,304,792	86%
Subtotal	9,575,198		101,882,680	
Total				
State	4,509,862	35%	16,908,622	16%
Federal	8,519,757	65%	87,651,728	84%
Grand Total	13,029,618		104,560,350	

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1989.

Section XI
Table 9

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered		Leased		Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
		Tracts	Acres	Tracts	Acres				
10/13/54	La.	199	748,819	90	394,721	116,378,476	1,184,175	295	1,220
11/09/54	Tex.	38	111,789	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,996	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,536	12,875
11/04/71	La.	18	56,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	96	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	506,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	142,154	144	675,587	1,428,261,330	2,026,812	2,114	39,111
Total (1954-1974)		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

See notes and sources at end of tab

United States Outer Continental Shelf Oil and Gas Lease Sales

		Offered		Leased					
Date	State	Tracts	Acres	Tracts	Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
02/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	3,566
05/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
05/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
07/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
07/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
02/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
02/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
02/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
04/13/76	Ak.	189	1,008,499	76	409,057	599,836,587	1,226,718	1,369	11,023
08/17/76	MAL(a)	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
06/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
06/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
03/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
04/25/78	La.	87	392,894	57	262,250	503,820,339	789,770	1,921	11,038
04/25/78	Tex.	58	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,302
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
02/28/79	MAL(a)	109	620,557	39	222,038	40,001,631	718,848	180	6,832
06/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
07/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
07/31/79	Tx.	42	215,770	28	136,685	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	962,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak.	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA(b)	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
09/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
05/28/81	S.Ca.	111	603,613	60	320,567	2,088,881,824	1,037,904	6,516	65,014
06/30/81(d)	Ak.	175	996,308	1	5,694	170,496	18,432	30	417
07/21/81	GOM(c)	212	1,077,913	156	799,899	2,649,628,752	2,399,736	3,312	37,444
08/04/81	So. Atl.	285	1,622,557	47	267,580	342,766,174	866,304	1,281	18,228
09/29/81	Cook In.	153	858,247	13	73,157	4,405,899	236,856	60	407
10/20/81	GOM	209	1,081,364	102	508,287	1,243,468,752	1,524,903	2,446	53,313
12/08/81	MAL	253	1,440,376	51	290,352	323,659,000	921,600	1,115	7,284
Total (1954-1981)		9,852	48,865,030	4,349	21,295,046	37,436,689,316	67,363,224	76,653	

See notes and sources at end of table

Section XI
Table 9b

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered Tracts	Offered Acres	Leased Tracts	Leased Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
02/09/82	GOM	234	1,219,826	115	590,265	1,193,654,719	1,770,795	2,022	N.A.
06/11/82	So. Ca.	140	716,840	29	147,066	117,875,281	443,913	802	N.A.
08/05/82(d)	Atl,Ca.,Ak	554	3,142,068	36	204,955	11,149,450	663,552	54	N.A.
10/13/82	Ak.	338	1,825,770	121	662,861	2,055,632,336	2,146,112	3,101	N.A.
11/17/82	GOM	144	732,570	56	281,213	609,178,223	843,657	2,166	N.A.
03/08/83	GOM	125	665,478	11	58,117	37,570,900	174,360	646	N.A.
03/15/83	Ak-NB	418	2,379,751	59	335,898	317,873,372	1,087,488	946	N.A.
04/12/83	Ak-SG	479	2,688,787	96	540,917	426,458,830	1,751,248	788	N.A.
04/26/83	MAL	4,050	22,664,991	37	210,648	68,410,240	681,984	325	N.A.
05/25/83	CGOM	7,050	37,156,426	623	3,089,812	3,367,606,134	9,269,616	1,090	N.A.
07/26/83	SAL	3,582	20,392,985	11	62,625	13,362,040	202,752	213	N.A.
08/24/83	WGOM	5,848	32,620,248	406	2,246,005	1,501,712,517	6,738,015	668	N.A.
11/30/83	S.Ca.	137	768,341	8	43,801	16,022,336	141,808	366	N.A.
01/05/84	EGOM	8,868	50,631,513	156	897,786	310,586,261	2,693,358	346	N.A.
04/17/84	Ak.Nav.	5,036	28,048,995	180	1,024,772	624,491,331	2,784,366	609	N.A.
04/24/84	CGOM	6,502	34,743,780	453	2,278,129	1,323,036,649	6,834,537	581	N.A.
07/18/84	WGOM	5,446	30,038,593	361	1,949,186	844,850,488	5,847,639	433	N.A.
08/22/84	AK-Diap.	1,419	7,773,447	231	1,230,486	871,964,327	3,910,184	709	N.A.
10/17/84	S.Ca.	657	3,147,352	23	114,363	62,121,252	347,157	543	N.A.
05/22/85	CGOM	4,531	24,006,157	409	2,076,907	1,079,377,760	6,230,829	520	N.A.
08/14/85	WGOM	4,879	27,199,074	195	1,075,188	359,175,656	3,225,597	334	N.A.
12/18/85	EGOM	6,344	35,823,478	63	359,948	100,911,298	1,079,844	280	N.A.
04/30/86	CGOM	5,837	31,382,152	101	504,806	130,276,757	1,514,442	258	N.A.
08/27/86	WGOM	4,887	27,287,951	41	229,612	56,817,990	688,839	247	N.A.
04/22/87	CGOM	5,881	31,818,471	293	1,539,626	262,971,486	4,618,941	171	N.A.
08/12/87	WGOM	5,045	27,943,606	347	1,908,183	234,275,520	5,724,597	123	N.A.
02/24/88	CGOM	51	593,971	14	142,685	15,149,327	428,056	102	N.A.
03/16/88	Beaufort	3,344	18,277,806	202	1,110,764	118,574,936	3,596,192	103	N.A.
03/30/88	CGOM	6,229	33,580,661	662	3,416,716	404,612,164	10,250,277	112	N.A.
05/25/88	Chukchi	4,694	25,631,122	350	1,976,912	478,177,948	6,400,280	242	N.A.
08/31/88	WGOM	5,053	27,911,790	255	1,412,764	130,785,464	4,238,340	89	N.A.
10/11/88	N.Aleutian	990	5,603,472	23	121,754	95,439,500	394,208	784	N.A.
11/16/88	EGOM	8,149	46,417,392	90	513,348	41,582,298	1,540,047	73	N.A.
03/15/89	CGOM	5,970	32,123,675	574	2,892,487	397,513,998	8,677,605	134	N.A.
08/23/89	WGOM	5,043	27,973,997	475	2,688,380	263,753,883	8,065,140	96	N.A.
Total (1954-1989)		137,806	753,797,566	11,455	59,234,031	55,379,641,987	182,369,001	N.A.	N.A.

(a) Middle Atlantic
(b) North Atlantic
(c) Gulf of Mexico
(d) Resale

SOURCE: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics
U.S. Minerals Management Service, Federal Offshore Statistics

U.S. Outer Continental Shelf Revenue and Production Value
Percentage Cumulative Revenue of Cumulative Production Value
(Thousands of Dollars)

Year All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
1953	–	–	1,359.6	30.7	967.9	2,358.2	2,358.2	5,036.9	5,036.9
1954	140,969.0	–	3,855.3	87.0	2,749.0	147,660.3	150,018.4	14,370.1	19,407.0
1955	108,528.7	–	3,406.4	122.0	5,140.0	117,197.1	267,215.5	27,060.7	46,467.6
1956	–	–	4,006.2	80.0	7,629.4	11,715.5	278,931.0	39,497.9	85,965.5
1957	–	68.6	3,270.1	110.3	11,391.2	14,840.2	293,771.3	61,072.6	147,038.1
1958	–	184.4	2,420.6	121.2	17,423.9	20,150.1	313,921.3	96,471.1	243,509.2
1959	89,747.0	171.0	2,285.7	85.0	26,540.0	118,828.7	432,750.1	150,472.5	393,981.8
1960	282,717.1	317.0	3,603.1	49.4	36,807.7	323,781.8	756,531.9	200,969.6	594,951.4
1961	–	314.1	3,073.9	37.1	46,733.7	51,345.4	807,877.3	273,636.6	868,587.8
1962	489,481.1	517.7	8,412.2	62.2	65,255.2	564,569.6	1,372,446.9	376,675.9	1,245,263.7
1963	12,807.6	668.3	8,435.2	53.0	75,373.9	98,963.0	1,471,410.2	450,866.5	1,696,130.2
1964	95,874.3	820.3	9,798.6	45.8	86,535.3	194,939.3	1,666,349.4	506,783.5	2,202,913.7
1965	33,740.3	1,072.7	8,731.4	38.5	99,656.3	146,445.4	1,812,794.8	594,222.7	2,797,136.5
1966	209,199.9	1,367.3	6,869.3	41.7	132,849.9	354,465.7	2,167,260.5	801,724.6	3,598,861.1
1967	510,109.7	1,891.5	6,208.9	41.4	153,432.4	675,859.2	2,843,119.7	947,214.7	4,546,075.8
1968	1,346,487.1	2,145.2	8,230.8	52.3	196,491.4	1,558,052.3	4,401,172.0	1,179,912.2	5,725,988.0
1969	111,660.7	1,923.6	8,312.6	41.7	235,681.8	362,029.2	4,763,201.2	1,443,870.5	7,169,858.4
1970	945,064.8	1,745.9	8,607.9	47.7	276,521.7	1,238,960.8	6,002,162.0	1,707,583.5	8,877,451.9
1971	96,304.5	1,891.0	7,742.0	32.3	340,634.9	456,012.3	6,458,174.3	2,135,677.1	11,013,129.0
1972	2,251,347.6	2,019.5	7,984.9	49.6	353,581.9	2,624,957.9	9,083,132.1	2,229,179.1	13,242,308.1
1973	3,082,462.6	2,391.2	8,948.8	52.7	389,735.8	3,494,981.4	12,578,113.6	2,486,864.9	15,729,172.9
1974	5,022,860.8	2,048.4	13,532.8	32.6	536,019.0	5,598,758.4	18,176,872.0	3,570,054.0	19,299,226.9
1975	1,088,133.2	2,085.9	17,522.0	39.5	594,725.5	1,723,325.1	19,900,196.9	3,924,914.9	23,224,141.8
1976	2,242,898.5	2,128.3	23,370.5	38.4	680,392.7	2,967,860.5	22,868,057.4	4,402,440.0	27,626,581.8
1977	1,568,564.7	1,679.0	19,830.0	21.1	890,469.8	2,509,742.3	25,377,799.7	5,774,056.4	33,400,638.3
1978	1,767,042.1	2,207.2	21,512.7	4.0	1,139,198.2	2,941,111.9	28,318,911.6	7,096,500.1	40,497,138.3
1979	5,078,861.7	2,088.5	20,287.3	6.6	1,512,017.7	6,616,592.1	34,935,503.7	9,273,278.3	49,770,416.6
1980	4,204,640.3	2,291.4	19,062.5	–	2,132,528.7	6,362,657.6	41,298,161.3	13,055,515.8	62,825,932.5
1981	6,652,980.9	2,250.3	21,731.0	–	3,287,279.4	9,965,512.5	51,263,673.7	20,199,823.2	83,025,755.7
1982	3,987,490.0	2,393.8	20,055.2	–	3,814,871.6	7,824,810.6	59,088,484.3	22,573,099.1	105,598,854.8
1983	5,749,016.4	4,463.7	32,463.1	–	3,454,318.1	9,240,261.2	68,328,745.5	21,540,887.5	127,139,742.3
1984	3,928,876.3	3,458.1	35,607.8	–	3,914,724.6	7,932,123.0	70,260,868.5	24,001,446.1	151,141,188.4
1985	1,557,650.7	4,067.3	61,999.1	–	3,612,782.8	5,262,530.6	81,509,193.3	22,153,497.0	173,294,685.5
1986	187,094.7	5,176.6	52,958.2	–	2,533,376.7	2,804,890.2	84,314,083.6	15,711,161.6	189,005,847.0
1987	497,247.0	21,399.3	74,642.7	–	2,337,034.9	2,944,453.1	87,258,536.6	14,575,635.2	203,581,482.2
1988	1,255,577.3	16,822.8	62,435.8	–	2,057,756.2	3,413,437.6	90,671,974.2	12,929,511.9	216,510,994.1
1989	645,646.9	38,890.9	79,247.7	–	2,118,785.5	2,915,175.0	93,601,354.9	13,352,682.7	229,863,676.8
TOTAL ALL STATES:	55,241,083.2	132,961.0	701,821.9	1,423.3	37,177,414.8	93,601,354.9	93,601,354.9	229863.676.8	229,863,676.8

See notes and sources at end of table

U.S. Outer Continental Shelf Revenue and Production Value
Percentage Cumulative Revenue of Cumulative Production Value
(Thousands of Dollars)

Note: Revenue = charges and/or collection--bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31, 1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500--leases on appeal validated.

SOURCE: U.S. Department of the Interior, Minerals Management Service, Federal Offshore Statistics 1989.

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
10/13/54	La.	$302,924,834	$116,378,476
11/9/54	Tex.	73,801,896	23,357,029
TOTAL		376,726,730	139,735,505
7/12/55	Tex.	9,027,610	8,437,462
7/12/55	La.	314,212,441	100,091,264
TOTAL		323,240,051	108,528,726
5/26/59	Fla.	1,711,872	1,711,872
8/11/59	La.	174,411,628	88,035,120
TOTAL		176,123,500	89,746,992
2/24/60	Tex.	56,400,897	35,732,031
2/24/60	La.	518,774,752	246,909,784
TOTAL		575,175,649	282,641,815
3/13/62	La.	314,218,540	177,260,305
3/16/62	Tex.	557,720	557,720
3/16/62	La.	604,799,998	267,775,677
10/9/62	La.	66,265,290	43,887,359
TOTAL		985,841,548	489,481,061
5/14/63	Cal.	13,989,953	12,807,587
4/28/64	La.	93,850,051	60,340,626
10/1/64	Ore.	43,049,543	27,768,772
10/1/64	Wash.	10,530,210	7,764,928
TOTAL		147,429,804	95,874,326
3/29/66	La.	275,384,739	88,845,963
10/18/66	La.	185,214,816	99,164,930
12/15/66	Cal.	89,937,020	21,189,000
TOTAL		550,536,575	209,199,893
6/13/67	La.	1,627,749,269	510,079,178
2/6/68	Cal.	1,293,601,113	602,719,262
5/21/68	Tex.	1,620,393,212	593,899,046
11/19/68	La.	398,430,736	149,868,789
TOTAL		3,312,425,061	1,346,487,097
1/14/69	La.	71,036,938	44,037,339
12/16/69	La.	230,460,743	66,908,196
TOTAL		301,497,681	110,945,535
7/21/70	La.	$163,451,158	$97,769,013
12/15/70	La.	2,877,429,559	846,784,660
TOTAL		3,040,880,717	944,553,673
11/4/71	La.	172,735,981	96,304,523
9/12/72	La.	1,599,155,464	585,827,925
12/19/72	La.	6,191,018,227	1,665,519,631
TOTAL		7,962,909,672	2,347,652,057
6/19/73	Tex.-La.	6,248,160,989	1,591,397,380
12/20/73	Miss.,La,Fla.	3,404,892,969	1,491,065,231
TOTAL		9,653,053,958	3,082,462,611
3/28/74	La.	6,474,003,574	2,092,510,854
5/29/74	Tex.	3,354,292,556	1,471,851,831
7/30/74	La.-Tex.	88,799,354	30,236,800
10/16/74	La.	2,514,518,419	1,427,242,455
10/16/74	La. royalty	7,238,500	1,018,875

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
TOTAL		12,438,852,403	5,022,860,815
2/04/75	Texas	484,721,874	274,690,955
5/28/75	La.-Tex.	402,752,336	232,916,050
7/29/75	La.-Tex.	317,001,333	163,214,006
12/11/75	S. Cal.	901,960,364	417,312,141
TOTAL		2,106,435,906	1,088,133,152
2/18/76	Fl.,La.,Tx.	428,003,629	175,976,493
4/13/76	Alaska	1,732,170,868	559,836,587
8/17/76	MAL(1)	3,153,411,802	1,127,936,425
11/16/76	La.-Tx.	833,015,950	379,148,962
TOTAL		6,146,602,249	2,242,898,467
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432
10/27/77	Alaska	643,559,393	388,488,081
	(Royalty)	33,516,288	9,983,232
TOTAL		3,605,166,895	1,568,564,745
3/28/78	S. Al	150,927,700	100,743,443
4/25/78	La.-Tx.	1,559,345,259	733,656,893
10/31/78	Al. Fla.,Ms.	87,592,568	61,176,730
12/19/78	La.-Tx.	2,355,263,307	871,464,998
TOTAL		4,153,128,834	1,767,042,064
2/28/79	MAL(a)	966,005,881	540,001,631
6/29/79	Ca.	994,683,700	572,825,418
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022
11/27/79	La.-Tx.	4,683,196,907	1,913,337,938
12/11/79	Ak.	945,445,102	488,691,138
12/18/79	NA(b)	1,270,789,889	816,516,546
TOTAL		11,294,111,099	5,078,861,693
9/30/80	La.	7,109,464,692	2,676,927,673
10/21/80	Ak.	197,417,470	109,751,073
11/18/80	Tx.	3,500,570,271	1,417,961,511
TOTAL		10,807,452,033	4,204,640,257
5/28/81	Ca.	4,885,810,689	2,038,566,639
6/30/81(d)	Ak.	5,582,362	170,496
7/21/81	GOM(c)	5,227,548,535	2,649,628,752
8/04/81	So. Atl.	561,050,365	342,766,174
9/29/81	Co. In.	4,697,309	4,405,899
10/20/81	GOM	2,402,400,552	1,243,468,752
12/08/81	MAL	578,952,000	323,659,000
TOTAL		13,666,041,812	6,602,665,712
2/09/82	GOM	2,683,699,843	1,193,654,719
6/11/82	Ca.	210,486,278	117,875,281
8/05/82	Atl.,Ca.,Ak.	14,439,195	11,149,450
10/13/82	Ak.	4,589,972,518	2,055,632,336
11/17/82	GOM	1,185,091,610	609,178,223
TOTAL		8,683,689,444	3,987,490,009
3/08/83	GOM	48,755,129	37,570,900
3/15/83	Ak.	371,803,984	317,873,372
4/12/83	Ak.	547,731,283	426,458,830
4/26/83	MAL	86,822,680	66,410,240

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
5/25/83	GOM	4,582,847,288	3,367,606,134
7/26/83	SAL	14,562,040	13,362,040
8/24/83	GOM	2,350,359,669	1,501,712,517
11/30/83	C.Ca.	24,045,646	16,022,336
TOTAL		8,026,927,719	5,749,016,369
1/05/84	EGOM	500,261,361	310,586,261
4/17/84	Ak.Nav.	1,148,701,653	624,491,331
4/24/84	CGOM	2,126,776,904	1,323,036,649
7/18/84	WGOM	1,263,576,675	844,850,488
8/22/84	Ak-Diap.	1,365,968,674	871,964,327
10/17/84	S. Ca.	73,163,686	62,121,252
TOTAL		6,478,448,953	4,037,050,308
05/22/85	CGOM	$1,566,926,725	$1,079,377,760
08/14/85	WGOM	519,116,036	359,175,656
12/18/85	EGOM	155,241,798	100,911,298
TOTAL		2,241,284,559	1,539,464,714
04/30/86	CGOM	164,135,937	130,276,757
08/27/86	WGOM	69,498,490	56,817,990
TOTAL		233,634,427	187,094,747
04/22/87	CGOM	341,540,856	262,971,486
08/12/87	WGOM	310,835,932	234,275,520
TOTAL		652,376,788	497,247,006
02/24/88	CGOM	20,792,841	15,149,327
03/16/88	Beaufort	139,194,672	115,261,636
03/30/88	CGOM	592,797,316	386,730,457
05/25/88	Chukchi	666,232,384	478,032,631
08/31/88	WGOM	188,974,839	125,352,889
10/11/88	N.Aleutian	114,067,500	95,439,500
11/16/88	EGOM	47,559,746	37,610,898
TOTAL		1,769,619,298	1,256,577,338
03/15/89	CGOM	477,045,923	388,422,537
08/23/89	WGOM	382,977,309	257,224,333
TOTAL		860,023,232	645,646,870

(a) Middle Atlantic
(b) North Atlantic
(c) Gulf of Mexico
(d) Resale

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1989.

Annual Installations and Removals of Offshore Production Platforms in Federal Waters as of December 31, 1989

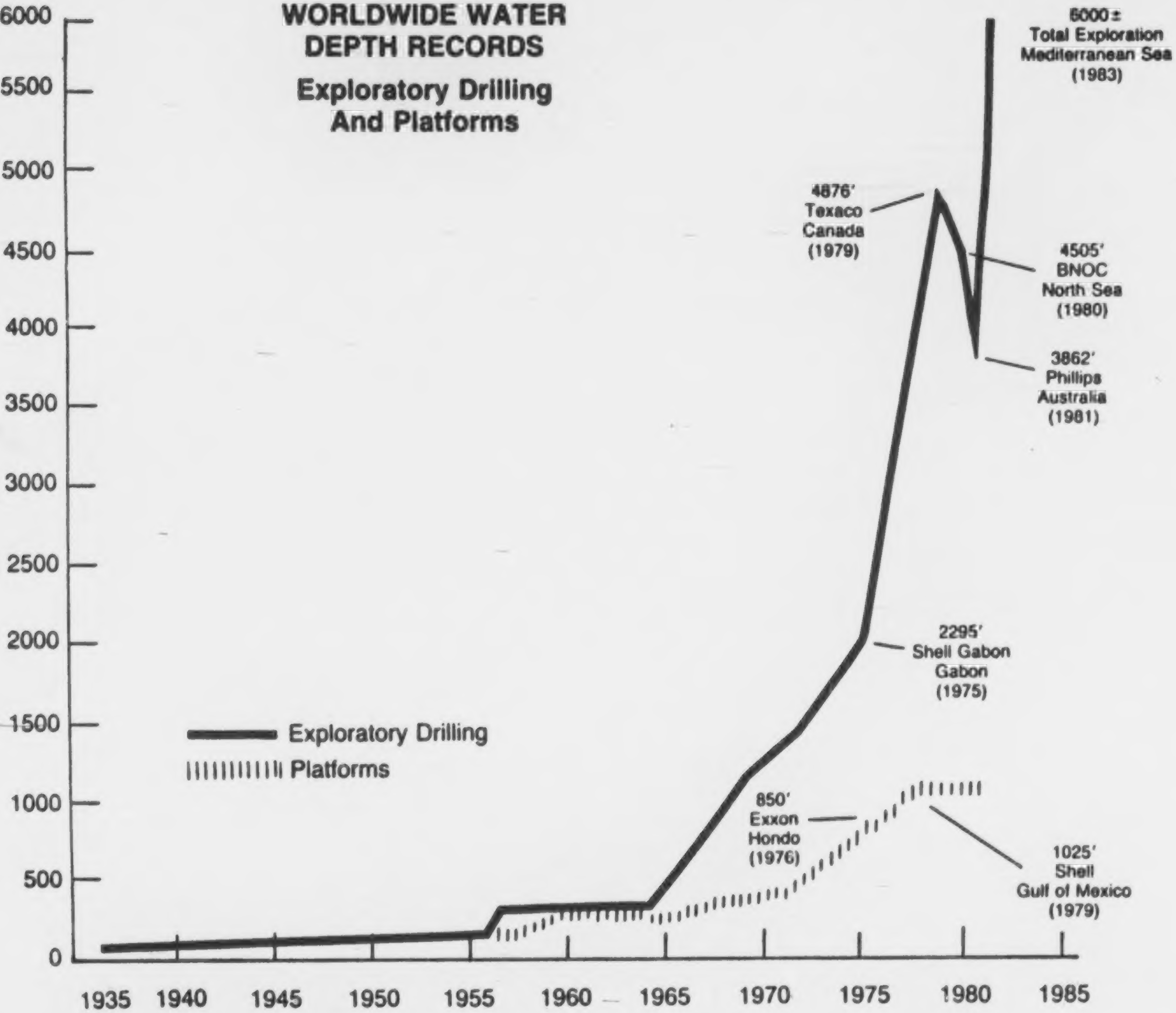
Year	Alaska OCS(a)		Atlantic OCS(a)		Gulf of Mexico OCS		Pacific OCS		Year's Net Platform Additions
	Installations	Removals	Installations	Removals	Installations	Removals	Installations	Removals	
1953-60	0	0	0	0	474	7	0	0	467
1961	0	0	0	0	111	0	0	0	111
1962	0	0	0	0	123	0	0	0	123
1963	0	0	0	0	86	2	0	0	84
1964	0	0	0	0	130	0	0	0	130
1965	0	0	0	0	126	5	0	0	121
1966	0	0	0	0	116	2	0	0	114
1967	0	0	0	0	134	0	1	0	135
1968	0	0	0	0	107	1	3	0	109
1969	0	0	0	0	105	1	1	0	105
1970	0	0	0	0	124	1	0	0	123
1971	0	0	0	0	101	4	0	0	97
1972	0	0	0	0	121	6	0	0	115
1973	0	0	0	0	98	1	0	0	97
1974	0	0	0	0	52	18	0	0	34
1975	0	0	0	0	100	32	0	0	68
1976	0	0	0	0	111	31	1	0	81
1977	0	0	0	0	116	15	1	0	102
1978	0	0	0	0	164	25	0	0	139
1979	0	0	0	0	159	43	2	0	118
1980	0	0	0	0	169	32	3	0	140
1981	0	0	0	0	171	24	2	0	149
1982	0	0	0	0	192	21	0	0	171
1983	0	0	0	0	177	36	1	0	142
1984	0	0	0	0	229	47	1	0	183
1985	0	0	0	0	214	68	3	0	149
1986	0	0	0	0	109	33	1	0	77
1987	0	0	0	0	119	24	1	0	96
1988	0	0	0	0	178	102	0	0	76
1989	0	0	0	0	182	100	2	0	84
Total	0	0	0	0	4398	681	23	0	3,740

(a) There is no production in the Federal Waters offshore of Alaska or on the Atlantic OCS.

NOTE: Gulf of Mexico OCS platform data includes accounting adjustments for 1983, 1984, and 1985. The removal figures reflect earlier transfers of 5 Federal wells from Federal to State jurisdiction and the conversion of 3 from production to service use. The 1985 installation total includes 47 platforms counted during audits completed in 1985.

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1989.

Section XI
Table 13



WORLDWIDE WATER DEPTH RECORDS

Exploratory Drilling And Platforms

6000± Total Exploration Mediterranean Sea (1983)

4876' Texaco Canada (1979)

4505' BNOC North Sea (1980)

3862' Phillips Australia (1981)

2295' Shell Gabon Gabon (1975)

850' Exxon Hondo (1976)

1025' Shell Gulf of Mexico (1979)

SOURCE: Offshore Magazine, June 20, 1982

Section XI
Table 14

Blowouts and Spillage from Federal Offshore Oil Wells Compared to Annual Production on the OCS, 1971-1989

Year	No. of Well Starts	Drilling Blowouts				Nondrilling Blowouts						Total No. of Blowouts	Spills in Barrels	Production in MMbbls.
		Exploration		Development		Production		Workover		Completion				
		No.	Bbl	No.	Bbl	No.	Bbl	No.	Bbl	No.	Bbl			
1971	851	2	0	0	0	2	450	1	0	0	0	5	450	418.5
1972	845	2	0	1	0	0	0	0	0	0	0	3	0	411.9
1973	820	2	0	1	0	0	0	0	0	0	0	3	0	394.7
1974	802	0	0	1	0	2	75	1	200	0	0	4	275	360.6
1975	842	4	0	0	0	0	0	1	0	1	0	6	0	330.2
1976	1,078	1	0	4	0	1	0	0	0	0	0	6	0	316.9
1977	1,240	2	0	2	0	0	0	3	0	2	0	9	0	303.9
1978	1,164	4	0	5	0	0	0	2	0	1	0	12	0	292.3
1979	1,140	3	0	2	0	0	0	0	0	0	0	5	0	285.6
1980	1,158	3	0	1	0	1	1	2	0	1	0	8	1	277.4
1981	1,208	2	0	1	0	0	0	2	64	5	0	10	64	289.8
1982	1,255	0	0	4	0	0	0	3	0	1	0	8	0	321.2
1983	1,180	3	0	4	0	0	0	1	0	1	0	9	0	348.3
1984	1,352	3	0	2	10	0	0	1	0	0	0	6	10	370.2
1985	1,169	2	0	0	0	1	40	1	0	0	0	4	40	389.3
1986	694	1	0	0	0	0	0	1	0	0	0	2	0	389.2
1987	845	3	0	1	60	3	0	1	0	0	0	8	60	366.1
1988	950	0	0	1	0	0	0	0	0	0	0	1	0	320.7
1989	947	2	0	3	0	0	0	2	0	0	0	7	0	305.1
Total	19,540	39	0	33	70	10	566	22	264	12	0	116	900	6,491.9

Note: Only crude oil and condensate blowout spillage is given here, in barrels for the 100 blowouts that occurred during the past 16 years. Production totals are given in millions of barrels (MMbbl). Information on other than oil and condensate spills may be obtained from the Chief, Offshore Rules and Operations Division, MMS, Reston, Virginia 22091.

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1989.

Pollution Spills and Seeps of one Barrel or More From Offshore Wells on Federal Leases(a)
1970-1989

Year	Gulf of Mexico: No. Spills	Gulf of Mexico: Bbls. Spilled	Pacific: No. Spills	Pacific Bbls. Spilled(b)
1970	7	83,823	0	--
1971	10	1,110	0	--
1972	2	181	0	10,325
1973	3	21,935	0	1,825
1974	8	23,973	0	1,460
1975	0	0	0	1,460
1976	60	4,740	0	1,458
1977	60	919	0	1,458
1978	62	1,382	0	1,456
1979	94	536	0	1,456
1980	42	1,775	1	1,458
1981	50	5,503	6	1,488
1982	42	124	3	1,464
1983	59	520	3	916
1984	47	224	5	770
1985	38	581	3	374
1986	37	234	2	376
1987	20	283	2	376
1988	32	15,285	1	2
1989	26	479	3	8

(a) Beginning with 1988 totals are for all spills, previous years (1970-1987) are crude and condensate spills only.

(b) This column shows estimated seepage from the Santa Barbara blowout of January 28,1969. Seepage following the blowout has been variously estimated at 10,000 to 71,500 barrels, but totals above do not include the first 10 days. The figure for 1972 includes seepage between February 7, 1969 and December 31,1972

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1989.

Section XI
Table 16

Historical Data on Leasing
Continental Seabeds Adjacent to the United States
(Thousands of Square Statute Miles)

Region	State Lands(a)	OCS "Shelf"(b)	Continental Slope(c)	Total OCS
Hawaii	–	0.4 (d)	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5	478.7	1,352.2
		559,040,000 Ac.	306,368,000 Ac.	865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
Total Federal OCS Acreage Ever Offered for Lease Through 8/22/84	329,472,769	58.9	38.1
Total Federal OCS Leased Through 8/22/84	37,147,323	6.6	4.3
Total Federal OCS Currently Under Lease 12/31/83(e)	18,500,000	3.3	2.1

(a) Areas within three nautical miles of coastline, except for Texas and Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.
(b) Between state limit and 200 meter depth
(c) Between 200 and 2,500 meter depths
(d) Includes state areas.
(e) Approximate acreage figure is used because of constant company relinquishments of leases--approximately 200 leases relinquished each year.

Source: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

Federal Offshore Planning Areas Ranked by January 1, 1987 Revised Conditional Mean Estimates of Undiscovered, Economically Recoverable Resources

PRESTO(a) Ranking of OCS Areas	Estimated Acres in Millions	Marg. Prob. of H(b)	Oil in Barrels	Gas in Tcf	Risked Estimates in Bbls of Oil Equivalent
1. Central Gulf of Mexico	48	1.00	3.82	37.66	10.52
2. Western Gulf of Mexico	36	1.00	1.58	25.40	6.10
3. Southern California	30	1.00	1.31	3.01	1.84
4. Chukchi Sea, AK(c)	30	0.22	2.73	0.00	0.59
5. Central California	15	0.90	0.50	0.82	0.58
6. Northern California	29	0.60	0.57	1.69	0.52
7. Mid-Atlantic	82	0.44	0.22	5.35	0.52
8. Eastern Gulf of Mexico	76	0.90	0.24	1.21	0.41
9. South Atlantic	106	0.23	0.21	4.60	0.24
10. North Atlantic	51	0.39	0.11	2.54	0.22
11. Beaufort Sea, AK(c)	52	0.14	1.44	0.00	0.21
12. Washington-Oregon	48	0.25	0.19	1.97	0.14
13. Straits of Florida	11	0.19	0.34	0.57	0.08
14. Navarin Basin, AK(c)	37	0.03	1.14	0.00	0.03
15. Gulf of Alaska(c)	132	0.04	0.98	0.00	0.04
16. St. George Basin, AK(c)	70	0.02	0.39	0.00	0.01
17. N. Aleutian Basin, AK(c)	33	0.03	0.61	0.00	0.01
18. Kodiak, AK(c)	89	0.01	0.43	0.00	0.01
19. Norton Basin, AK(c)	25	0.01	0.58	0.00	neg.
20. Cook Inlet, AK(c)	5	0.01	0.17	0.00	neg.
21. Hope Basin, AK(c)	12	0.01	0.66	0.00	neg.
22. Shumagin, AK(c)	83	neg.	0.28	0.00	neg.
23. Aleutian Arc, AK(c)	161	neg.	neg.	neg.	neg.
24. Aleutian Basin, AK(c)	47	neg.	neg.	neg.	neg.
25. Bowers Basin, AK(c)	90	neg.	neg.	neg.	neg.
26. St. Mathew-Hall, AK(c)	54	neg.	neg.	neg.	neg.

(a) Probalistic Resource Estimates Offshore

(b) Marginal probability of hydrocarbons (H), given here as a decimal fraction of 1.00 as the certainty, expresses the chance of occurrence of oil and gas in commercial volumes, using existing technology and under current economic conditions.

(c) Gas in Alaska was assumed to be noneconomic as of 1/1/87. The conditional estimates represent the positive range of resources present given the conditions that hydrocarbons exist in the area of study. Conditional resources are multiplied by the marginal probability to yield risked resources. Oil is given in billions of barrels and gas in trillions of cubic feet. Conditional gas estimates are converted to energy equivalent barrels of oil BOE value which is added to the liquid volume for a total BOE figure. The conditional total is multiplied by the marginal probability to yield the risked total in billions of BOE. Areas considered to have little or no potential for commercial development are designated as negligible (neg.).

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1989.

United States Offshore Crude Oil Production by State
(Thousands of Barrels)

	Alaska		California		Louisiana		Texas		Total U.S.	
Year	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
1965	31.9	0	42,772.0	0	53,253.0	144,964.9	553.0	3.7	96,609.9	144,968.6
1966	2,652.7	0	53,294.0	0	56,697.4	187,831.5	367.6	882.6	113,011.7	188,714.1
1967	15,933.0	0	64,807.0	0	65,040.2	218,995.8	280.1	2,865.8	146,060.3	221,861.6
1968	52,524.6	0	83,279.0	2,059.9	66,648.9	263,825.4	536.0	3,110.6	202,988.5	268,995.9
1969	60,887.0	0	89,061.0	9,940.8	67,250.7	300,159.3	223.7	2,759.3	217,422.4	312,860.0
1970	70,472.0	0	79,504.2	24,987.6	72,063.2	333,411.5	779.5	2,247.0	222,818.9	360,646.2
1971	66,793.3	0	70,819.0	31,103.5	69,061.4	385,760.4	474.0	1,685.0	207,147.7	418,548.9
1972	64,336.6	0	73,168.5	22,562.2	71,184.6	387,590.7	739.8	1,733.0	209,429.4	411,885.9
1973	62,427.3	0	70,582.6	18,915.3	54,957.7	374,196.9	667.6	1,617.8	188,635.1	394,730.0
1974	60,630.2	0	67,206.8	16,776.7	46,688.6	342,435.5	578.1	1,381.8	175,103.7	360,594.1
1975	60,709.2	0	64,274.0	15,304.8	40,962.3	313,592.6	353.8	1,340.1	166,299.3	330,237.5
1976	55,190.9	0	56,646.1	13,978.6	38,358.2	301,887.0	708.5	1,054.6	150,903.6	316,920.1
1977	50,575.7	0	48,223.9	12,267.6	33,804.7	290,771.6	2,620.3	909.0	135,224.6	303,948.2
1978	45,712.5	0	43,524.6	12,085.9	32,365.5	278,071.5	2,457.6	2,107.6	124,060.2	292,265.0
1979	38,922.7	0	42,202.6	10,961.1	29,359.9	271,008.9	2,544.1	3,595.5	113,029.3	285,565.5
1980	32,726.5	0	39,978.9	10,198.9	27,591.9	256,688.1	1,962.6	10,502.0	102,259.9	277,389.0
1981	28,447.1	0	39,164.7	19,605.0	26,219.7	255,875.7	1,823.8	14,284.7	95,655.2	289,765.4
1982	24,680.9	0	39,810.6	28,434.2	24,825.6	275,513.5	1,754.3	17,263.8	91,071.4	321,211.5
1983	21,911.9	0	37,702.6	30,527.5	24,314.5	298,093.6	2,286.5	19,710.2	86,215.5	348,331.2
1984	19,631.0	0	39,508.3	30,254.3	26,852.7	318,024.6	2,100.6	21,960.1	88,092.8	370,239.0
1985	12,644.2	0	39,588.8	29,781.5	23,747.8	338,901.9	2,175.6	20,641.0	78,156.5	389,324.3
1986	15,349.2	0	34,697.5	29,227.8	25,719.9	340,152.3	2,091.5	19,835.9	77,858.1	389,216.0
1987	13,941.7	0	30,360.4	33,556.7	24,901.8	307,950.9	1,788.8	24,634.1	70,992.7	366,141.7
1988	13,429.4	0	28,202.9	32,615.1	24,083.9	261,936.5	1,499.6	26,115.8	67,215.8	320,667.4
1989	13,269.9	0	25,397.0	33,072.2	22,563.1	246,207.7	1,618.3	25,887.8	62,848.3	305,167.7

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics, 1989.

United States Offshore Dry Natural Gas Production by State(a)
(Millions of Cubic Feet)

Year	Alaska		California		Louisiana		Texas		Total U.S.	
	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
1965	10.9	0	40,770.0	0	217,148.0	645,589.5	27,520.0	0	285,449.0	645,589.5
1966	1,200.1	0	46,839.0	0	282,848.8	965,387.8	21,623.0	42,059.4	352,510.9	1,007,447.2
1967	9,046.3	0	46,732.0	0	395,359.1	1,087,262.8	60,844.6	99,952.9	511,981.9	1,187,215.8
1968	25,806.8	0	85,765.0	799.7	493,015.1	1,413,467.6	190,778.3	109,910.8	795,365.1	1,524,178.1
1969	43,243.5	0	79,058.0	4,845.9	557,680.7	1,822,544.1	110,959.5	127,097.0	790,941.7	1,954,487.0
1970	83,139.5	0	58,892.2	12,229.1	595,318.6	2,273,147.0	131,360.8	133,300.4	868,711.1	2,418,676.6
1971	86,326.3	0	45,776.3	15,671.5	573,461.1	2,634,014.0	108,242.1	127,357.9	813,806.1	2,777,043.4
1972	76,818.6	0	34,747.1	10,033.6	603,638.1	2,881,364.7	130,126.0	147,156.5	845,329.9	3,038,554.8
1973	74,655.1	0	30,596.3	7,286.5	557,250.2	3,055,628.2	102,364.3	148,673.6	764,866.0	3,211,588.4
1974	74,672.5	0	28,931.1	5,573.6	518,580.6	3,349,170.9	109,597.3	159,979.4	731,781.5	3,514,723.9
1975	76,294.5	0	23,320.0	3,951.6	508,462.0	3,332,169.1	97,957.2	122,572.8	706,033.8	3,458,693.5
1976	74,142.8	0	18,983.9	3,475.2	512,934.9	3,499,865.9	113,411.0	92,582.4	719,472.6	3,595,923.5
1977	77,539.5	0	14,237.2	3,290.0	486,096.2	3,647,513.7	181,306.7	86,943.3	759,179.6	3,737,746.9
1978	74,910.5	0	14,196.1	3,472.3	489,728.7	4,149,731.1	170,142.6	231,857.5	748,977.9	4,385,060.9
1979	73,792.4	0	13,550.3	2,866.8	476,965.2	4,158,521.7	207,617.3	511,590.6	771,925.2	4,672,979.1
1980	64,543.2	0	13,074.7	3,107.0	408,784.2	4,013,707.4	254,377.2	624,642.5	740,779.3	4,641,457.0
1981	72,307.3	0	13,470.7	12,766.3	374,439.8	4,106,494.6	236,707.2	730,275.8	696,924.9	4,849,536.7
1982	68,392.5	0	14,007.2	17,750.9	359,349.3	3,803,740.1	246,966.9	858,020.3	688,715.9	4,679,511.3
1983	68,836.8	0	13,853.3	16,024.3	316,254.0	3,173,892.4	148,134.3	850,817.2	547,078.3	4,040,733.9
1984	68,688.2	0	13,836.6	27,806.9	313,362.3	3,578,740.6	112,090.6	931,293.6	507,977.7	4,537,841.1
1985	62,796.0	0	19,483.1	49,164.2	229,971.7	3,116,884.5	108,130.7	834,926.5	420,381.5	4,000,975.2
1986	63,351.0	0	18,252.9	42,689.0	228,128.9	2,927,832.3	115,126.3	978,370.6	424,859.1	3,948,891.8
1987	61,233.3	0	13,004.6	40,986.2	221,170.4	3,180,107.2	98,586.1	1,204,488.3	393,994.4	4,425,581.7
1988	66,970.8	0	10,715.2	34,570.6	210,430.8	3,096,881.6	98,077.5	1,178,422.6	386,194.3	4,309,874.8
1989	82,115.8	0	9,028.4	28,574.9	200,000.8	3,006,576.1	111,506.5	1,165,113.0	402,651.5	4,200,263.9

(a) Includes casinghead gas.

SOURCE: U.S. Department of Interior, Mineral Management Service, Federal Offshore Statistics, 1989.

BASIC PETROLEUM DATA BOOK

SECTION XII. TRANSPORTATION

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United States Gas Utility Industry
Miles of Pipeline and Main, by Type(a)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1947	27.1	92.9	211.5	331.4
1948	29.2	97.0	220.1	346.4
1949	30.9	102.9	230.3	364.1
1950	32.9	113.1	241.6	387.5
1951	34.7	120.5	252.5	407.7
1952	38.4	123.4	263.5	425.3
1953	41.5	130.4	274.5	446.4
1954	43.8	139.0	287.7	470.5
1955	45.7	145.9	305.1	496.7
1956	47.6	153.8	323.8	525.2
1957	50.0	160.1	338.7	548.8
1958	52.0	165.4	354.1	571.5
1959 (b)	54.1	174.3	371.4	599.8
1960 (c)	55.8	183.7	391.4	630.9
1961	56.7	191.9	410.4	659.0
1962	58.7	196.4	428.1	683.2
1963	60.7	200.9	448.3	709.9
1964	61.0	205.4	469.8	736.2
1965	61.7	211.3	494.5	767.5
1966	63.0	217.0	519.6	799.6
1967	63.7	225.4	539.2	828.3
1968	64.4	234.5	562.7	861.6
1969	64.9	248.1	578.6	891.6
1970	66.3	252.2	594.8	913.3
1971	66.2	254.8	610.4	931.4
1972	66.9	258.1	623.1	948.1
1973	65.9	263.1	633.8	962.9
1974	66.4	262.2	645.6	974.1
1975	68.5	262.6	648.2	979.3
1976	70.3	258.2	659.1	987.7
1977	71.5	260.5	666.9	998.9
1978	74.9	260.6	677.5	1,013.0
1979	77.8	263.5	688.5	1,029.8
1980	83.5	266.5	701.8	1,051.8
1981	86.2	269.5	714.1	1,069.8
1982	90.5	271.7	721.2	1,083.4
1983	91.9	273.5	729.7	1,095.1
1984	93.7	271.9	736.8	1,102.4
1985	94.1	271.2	753.4	1,118.7
1986	93.8	271.0	769.3	1,134.1
1987	93.6	273.8	783.8	1,151.2
1988	92.3	275.4	801.3	1,169.0

See notes and sources at end of table

United States Gas Utility Industry
Miles of Pipeline and Main, by Type(a)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1989	90.6	276.3	818.1	1,185.0

(a) Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.
(b) These figures and those for subsequent years include Hawaii.
(c) These figures and those for subsequent years include Alaska.

SOURCE: American Gas Association, Gas Facts

Section XII
Table 2

Total Crude Oil and Petroleum Products Transported in the U.S. by Method of Transportation (In Billions of Ton Miles)

	Pipelines		Water Carriers		Motor Carriers(a)		Railroads		
Year	Ton Miles	Percent of Total	Ton Miles	Percent of Total	Ton Miles	Percent of Total	Ton Miles	Percent of Total	Total Crude and Products Ton Miles
1972	475.8	56.7	330.0	39.3	23.0	2.7	10.0	1.2	838.8
1973	507.0	60.1	296.8	35.1	25.0	3.0	14.8	1.8	843.6
1974	506.0	59.7	297.0	35.0	29.0	3.4	15.7	1.9	847.7
1975	507.0	59.9	298.0	35.2	27.6	3.3	14.1	1.7	846.7
1976	515.0	59.4	306.9	35.4	32.5	3.8	13.3	1.5	867.7
1977	546.0	59.1	333.3	36.1	29.6	3.2	14.5	1.6	923.4
1978	585.8	50.5	530.6	45.7	30.6	2.7	13.2	1.1	1,160.2
1979	608.3	51.8	522.9	44.5	30.1	2.6	13.5	1.2	1,174.8
1980	588.2	47.2	617.8	49.6	26.8	2.2	12.5	1.0	1,245.3
1981	563.7	46.3	617.2	50.7	24.9	2.0	12.6	1.0	1,218.4
1982	565.7	46.4	616.9	50.6	22.7	1.9	12.9	1.1	1,218.2
1983	556.1	45.5	630.5	51.5	25.1	2.1	11.8	1.0	1,223.5
1984	568.1	48.1	570.7	48.4	29.2	2.5	12.2	1.0	1,180.2
1985	564.3	47.2	590.4	49,4	28.7	2.4	12.1	1.0	1,195.5
1986	577.9	48.7	568.1	47.8	29.7	2.5	12.1	1.0	1,187.8
1987	586.8	49.1	566.5	47.4	30.4	2.5	12.1	1.0	1,195.8
1988	601.1	50.6	543.7	45.8	30.5	2.6	12.8	1.1	1,188.1
1989	584.2	53.4	466.2	42.6	30.4	2.8	13.4	1.2	1,094.2
1990	577.1	53.7	454.5	42.3	29.8	2.8	13.8	1.3	1,075.2

(a) Estimate.

SOURCE: 1972-1989: Association of Oil Pipelines, Shifts in Petroleum Transportation
1990: Eno Foundation for Transportation, Transportation in America, June 1991

Section XII
Table 3

United States Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
(Ocean-going vessels of 2000 gross tons and over)

	Actual Fleet				
Year (a)	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan.1, 1947	951	8,784,894	14,035,000	13.9	800.5
Oct.1 1947	744	6,995,223	11,171,400	14.1	646.4
April 1 1948	621	5,878,786	9,395,500	14.0	541.9
Jan.1, 1949	593	5,656,497	9,016,200	14.1	524.2
Sept. 1 1949	578	5,439,009	8,639,800	14.4	513.2
Sept. 1 1950	559	5,322,698	8,460,700	14.5	505.1
April 1 1951	560	5,363,699	8,520,800	14.6	510.0
Oct.1, 1952	550	5,284,400	8,446,400	14.6	508.3
1953	550	5,475,800	8,639,800	14.8	525.3
1954	525	5,376,500	8,446,200	15.0	521.7
1955	490	5,094,900	7,989,500	15.1	497.4
1956	477	5,040,700	7,892,700	15.2	493.4
1957	470	5,097,400	7,959,900	15.4	503.1
1958	474	5,316,100	8,309,200	15.5	529.5
1959	485	5,593,600	8,766,300	15.6	563.0
1960	478	5,664,000	8,894,600	15.7	575.0
1961	469	5,751,400	9,085,300	15.8	590.1
1962	456	5,726,900	9,045,300	15.9	589.8
1963	440	5,631,000	8,912,600	15.9	583.5
1964	422	5,553,400	8,816,300	16.0	579.3
1965	410	5,479,800	8,733,500	16.0	575.8
1966	387	5,343,700	8,549,900	16.1	566.3
1967	382	5,322,800	8,550,700	16.1	566.4
1968	380	5,337,300	8,655,700	16.1	574.6
1969	365	5,319,400	8,797,900	16.1	584.9
1970	350	5,305,800	8,911,000	16.2	593.4
1971	347	5,453,100	9,218,200	16.3	616.5
1972	328	5,411,300	9,253,300	16.4	621.0
1973	312	5,507,000	9,525,200	16.3	640.3
1974	306	5,798,068	10,236,221	16.4	790.0
1975	293	5,943,289	10,601,370	16.4	714.5
1976	290	6,357,974	11,565,138	16.4	779.3
1977	254	6,486,000	11,950,200	16.0	NA
1978	271	7,449,900	13,589,200	16.0	NA
1979	313	9,061,313	16,559,318	16.3	NA
1980	269	7,621,000	14,720,000	16.3	NA
1981	274	7,837,000	15,153,800	16.5	NA
1982	269	7,792,100	15,100,300	15.6	NA
1983	287	8,989,600	16,462,400	16.0	NA
1984	286	8,963,600	16,445,700	15.7	NA
1985	252	8,442,700	15,542,100	16.0	NA

See notes and sources at end of table

Section XII
Table 3a

United States Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
(Ocean-going vessels of 2000 gross tons and over)

Year (a)	Actual Fleet				
	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1987	247	8,381,700	15,452,600	15.8	NA
1988	254	9,174,300	16,876,900	15.8	NA
1989	247	9,004,800	16,708,300	15.3	NA

(a) From 1953 to 1985, figures as of December 31; 1987 to 1989 figures as of January 1; other figures as of date indicated.

SOURCE: 1947-1973: Sun Company, Analysis of World Tank Ship Fleet.
1974-1976: Sun Shipbuilding and Dry Dock Company.
1977-1985: U.S. Department of Transportation, Maritime Administration (Report E2-17).
1987-1989: U.S. Department of Transportation, Maritime Administration, Tankers in the World Fleet

Age Distribution of the United States Tanker Fleet
(Ocean-going vessels of 1000 gross tons and over)

Year of Construction	Number	Gross Tons(a)	Deadweight Tons(a)	Average Speed (knots)	Average Draft (feet)
Before 1955	26	408.9	730.4	14.4	30.8
1955	2	85.1	190.8	12.5	37.0
1956	5	81.3	144.9	16.2	31.2
1957	12	203.3	346.2	16.3	33.6
1958	9	182.4	302.6	16.7	35.1
1959	8	157.0	259.5	16.8	35.5
1960	5	112.9	212.4	17.0	38.2
1961	4	116.7	196.4	16.5	39.8
1962	1	20.0	34.1	15.0	36.0
1963	4	88.3	150.7	16.3	35.8
1964	6	146.1	281.6	16.7	38.8
1965	2	48.6	94.4	16.5	35.5
1966	2	58.9	116.2	16.0	39.5
1967	0	0.0	0.0	0.0	0.0
1968	4	82.6	148.3	17.5	38.8
1969	8	189.8	383.4	16.5	38.4
1970	8	220.7	456.6	15.5	40.4
1971	6	178.7	358.1	16.0	41.2
1972	7	216.2	429.3	15.7	41.0
1973	5	277.6	596.5	16.0	51.4
1974	10	466.8	939.4	16.1	47.4
1975	13	408.0	803.2	15.8	40.4
1976	11	476.6	1,004.6	15.2	43.9
1977	17	1,018.5	1,886.4	16.0	46.2
1978	13	869.9	1,397.3	17.8	46.2
1979	13	1,221.3	2,201.6	17.3	53.2
1980	6	349.2	455.8	17.2	42.3
1981	13	379.8	655.4	15.0	35.6
1982	7	255.1	549.9	13.7	41.1
1983	7	268.7	560.7	15.1	44.6
1984	5	126.2	234.8	15.6	35.0
1985	4	61.1	95.6	14.8	30.5
1986	3	133.5	279.7	16.0	44.7
1987	1	95.0	211.5	16.0	65.0
Total	247	9,004.8	16,708.3	15.3	37.6

(a) Tonnage in thousands.

SOURCE: Department of Transportation, Maritime Administration, Tankers in the World Fleet as of January 1, 1989.

Tankers in the World Fleet by Major Flag of Registry(a)
(As of January 1, 1989)

Country of Registry	Total		General Tankers		Special Tankers		Chemical Tankers		LNG Tankers		LPG Tankers	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Argentina	50	1,032.6	44	994.8	0	0.0	2	10.2	0	0.0	4	27.6
Brazil	95	3,995.3	68	3,659.4	0	0.0	15	264.9	0	0.0	12	71.0
China	166	2,699.6	154	2,541.7	2	10.8	10	147.1	0	0.0	0	0.0
Cyprus	125	10,516.0	92	9,980.9	3	24.5	26	499.8	0	0.0	4	10.8
France	59	4,107.0	37	3,846.6	6	20.3	9	52.6	2	87.4	5	100.1
Germany	54	737.7	10	229.2	1	3.2	27	330.8	0	0.0	16	174.5
Greece	205	15,357.6	177	14,824.6	2	9.7	17	453.9	0	0.0	9	69.4
Italy	223	5,035.5	133	4,451.1	5	12.5	53	365.1	3	51.3	29	155.5
Japan	314	15,664.2	234	14,149.3	0	0.0	31	214.2	10	608.6	39	692.1
Korea	67	1,726.8	42	1,569.4	0	0.0	16	66.6	0	0.0	9	90.8
Liberia	602	57,064.8	435	52,343.5	1	29.5	119	3,227.3	4	202.2	43	1,262.3
Nassau Bahamas	133	10,415.1	95	9,793.2	0	0.0	32	457.7	1	88.2	5	76.0
Norway	207	13,761.2	90	10,757.8	1	2.5	64	1,654.6	0	0.0	52	1,346.3
Panama	628	22,973.8	283	19,751.0	6	48.1	247	2,609.7	0	0.0	92	565.0
Singapore	127	5,161.0	95	4,630.1	1	7.0	10	222.7	0	0.0	21	301.2
Spain	87	3,614.2	49	3,316.8	0	0.0	23	230.7	1	24.9	14	41.8
Sweden	59	509.9	26	188.7	0	0.0	32	250.4	1	70.8	0	0.0
Turkey	52	1,383.0	33	1,304.0	1	15.8	16	58.5	0	0.0	2	4.7
U.S.S.R	444	7,269.6	416	6,759.5	7	86.5	10	225.3	0	0.0	11	198.3
United Kingdom(b)	198	14,328.0	125	12,848.7	2	8.3	39	316.6	10	434.3	22	720.1
United States	247	16,708.3	209	14,872.0	12	487.0	8	200.8	13	936.4	5	212.1
All Others	1,108	40,734.5	771	35,259.4	25	141.2	214	3,544.9	11	710.8	87	1,078.2
Total	5,250	254,795.7	3,618	228,071.7	75	906.9	1,020	15,404.4	56	3,214.9	481	7,197.8

(a) Ocean-going vessels 1000 gross tons and over.
(b) Including British Colonies

SOURCE: Department of Transportation, Maritime Administration, Tankers in the World Fleet As of January 1,1989

Sources of Spills of Oil and other Substances (Gallons)

1983

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships	276	145,778	14	64,729	20	4,250	310	214,757
Tank Barges	561	1,798,055	17	8,717	18	69,081	596	1,875,853
Dry Cargo Barges	13	1,273	0	-	3	97	16	1,370
Dry Cargo Ships	204	102,379	0	-	9	171	213	102,550
Combatants	245	26,265	1	30	6	353	252	26,648
Other	1,131	248,348	4	145	44	797	1,179	249,290
TOTAL	2,430	2,322,098	36	73,621	100	74,749	2,566	2,470,468
LAND VEHICLES								
Rail	29	28,284	2	1,015	2	500	33	29,799
Highway	319	155,021	19	17,457	32	18,200	370	190,678
Other	129	72,463	7	33,695	8	6,326	144	112,484
TOTAL	477	255,768	28	52,167	42	25,026	547	332,961
NON-TRANSPORT, ON/OFFSHORE								
Refinery	72	35,657	10	137,627	8	1,740	90	175,024
Bulk Storage	251	292,480	7	1,960	5	5,670	263	300,110
Onshore Production	134	606,393	0	-	6	169,265	140	775,658
Offshore Production	1,184	112,491	11	164	22	568	1,217	113,223
Other	242	47,477	51	521,687	48	5,538,276	341	6,107,440
TOTAL	1,883	1,094,498	79	661,438	89	5,715,519	2,051	7,471,455
PIPELINES	166	33,963	2	2	2	0	170	33,965
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	24	4,446	0	-	0	0	24	4,446
Bulk Transfer	156	78,024	7	1,672	6	116	169	79,812
Non-Bulk Transfer	3	401	0	-	0	0	3	401
Other	91	81,290	8	182	18	41,658	117	123,130
TOTAL	274	164,161	15	1,854	24	41,774	313	207,789
LAND FACILITIES	47	13,933	5	1,166	9	3,624	61	18,723
MISC/UNKNOWN	4,234	4,483,552	124	1,008,793	606	10,370,959	4,964	15,863,304
GRAND TOTAL	9,511	8,367,973	289	1,799,041	872	16,231,651	10,672	26,398,665

See notes and sources at end of table

Sources of Spills of Oil and other Substances
(Gallons)

1984

Source	Oil		Hazardous		Other		Total	
	No.	Volume	No.	Volume	No.	Volume	No.	Volume
VESSELS								
Tank Ships..................	244	1,906,668	9	2,837	19	20,126	272	1,929,631
Tank Barges.................	529	2,488,441	16	52,902	19	22,005	564	2,563,348
Dry Cargo Barges............	11	2,900	0	0	0	0	11	2,900
Dry Cargo Ships.............	170	1,479,833	0	0	16	73	186	1,479,906
Combatants..................	237	170,319	2	2	8	70	247	170,391
Other.......................	1,234	220,187	4	74	587	830	1,825	221,091
TOTAL...................	2,425	6,268,348	31	55,815	649	43,104	3,105	6,367,267
LAND VEHICLES								
Rail........................	90	82,111	28	51,692	47	5,865	165	139,668
Highway.....................	393	269,830	28	30,622	52	33,601	473	334,053
Other.......................	152	24,686	2	1,001	16	1,019	170	26,706
TOTAL...................	635	376,627	58	83,315	115	40,485	808	500,427
NON-TRANSPORT, ON/OFFSHORE								
Refinery....................	114	149,304	7	5,037	12	10,705	133	165,046
Bulk Storage................	298	1,463,144	12	74,978	19	35,695	329	1,573,817
Onshore Production..........	99	24,178	2	128	5	1,198	106	25,504
Offshore Production.........	1,170	56,555	6	99	19	1,097	1,195	57,751
Other.......................	717	228,506	146	313,891	154	457,726	1,017	1,000,123
TOTAL...................	2,398	1,921,687	173	394,133	209	506,421	2,780	2,822,241
PIPELINES..................	54	2,613	1	2	3	42	58	2,657
MARINE FAC. ON/OFFSHORE.....								
Fuel Transfer...............	27	14,193	0	0	0	0	27	14,193
Bulk Transfer...............	150	74,754	10	14,222	9	12,043	169	101,019
Non-Bulk Transfer...........	3	26	0	0	0	0	3	26
Other.......................	0	0	0	0	0	0	0	0
TOTAL...................	180	88,973	10	14,222	9	12,043	199	115,238
LAND FACILITIES.............	73	31,062	8	4,450	23	34,863	104	70,375
MISC/UNKNOWN................	3,480	7,565,613	35	121,694	998	113,055	4,513	7,800,362
GRAND TOTAL..........	9,245	16,254,923	316	673,631	2,006	750,013	11,567	17,678,567

See notes and sources at end of table

Sources of Spills of Oil and other Substances (Gallons)

1985

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships	173	10,732,387	5	131	12	1,247	190	10,733,765
Tank Barges	417	3,688,584	19	2,986	16	4,220	452	3,695,790
Dry Cargo Barges	12	1,779	1	0	2	1	15	1,780
Dry Cargo Ships	145	177,067	4	173	16	7,033	165	184,273
Combatants	135	13,770	0	0	6	2	141	13,772
Other	1,187	514,215	3	42	842	10,021	2,032	524,278
TOTAL	2,069	15,127,802	32	3,332	894	22,524	2,995	15,153,658
LAND VEHICLES								
Rail	69	69,948	26	6,949	42	711	137	77,608
Highway	307	137,731	36	4,226	70	27,815	413	169,772
Other	108	20,777	2	17	19	5,882	129	26,676
TOTAL	484	228,456	64	11,192	131	34,406	679	274,056
NON-TRANSPORT, ON/OFFSHORE								
Refinery	88	1,325,077	8	760	19	25,141	115	1,350,978
Bulk Storage	206	380,139	16	23,231	17	12,378	239	415,748
Onshore Production	150	127,569	12	1,155,276	27	85,394	189	1,368,239
Offshore Production	831	26,922	4	530	40	599	875	28,051
Other	555	234,901	156	127,002	123	2,581,336	834	2,943,239
TOTAL	1,830	2,094,608	196	1,306,799	226	2,704,848	2,252	6,106,255
PIPELINES	65	43,047	0	0	4	203	69	43,250
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	20	10,432	0	0	0	0	20	10,432
Bulk Transfer	91	26,360	18	18,794	8	7,668	117	52,822
Non-Bulk Transfer	1	0	0	0	0	0	1	0
Other	82	19,757	8	82	10	203	100	20,042
TOTAL	194	56,549	26	18,876	18	7,871	238	83,296
LAND FACILITIES	130	88,946	30	10,457	29	7,511	189	106,914
MISC/UNKNOWN	2,250	1,035,732	62	41,818	920	188,321	3,232	1,265,871
GRAND TOTAL	6,993	18,666,794	410	1,392,474	2,219	2,965,386	9,622	23,024,654

See notes and sources at end of table

Sources of Spills of Oil and other Substances
(Gallons)

1986

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships	203	1,163,809	18	5,618	27	1,470	248	1,170,897
Tank Barges	577	1,884,500	37	212,712	25	8,734	639	2,105,946
Dry Cargo Barges	13	556	1	0	3	8	17	564
Dry Cargo Ships	170	35,563	5	615	32	12,349	207	48,527
Combatants	95	28,031	0	0	6	2,086	101	30,117
Other	1,761	285,526	12	1,650	419	8,322	2,192	295,498
TOTAL	2,819	3,397,985	73	220,595	512	32,969	3,404	3,651,549
LAND VEHICLES								
Rail	14	1,285	12	0	4	1	30	1,286
Highway	218	35,772	28	3,552	24	4,098	270	43,422
Other	27	297	0	0	3	0	30	297
TOTAL	259	37,354	40	3,552	31	4,099	330	45,005
NON-TRANSPORT, ON/OFFSHORE								
Refinery	37	272,847	2	200	8	266	47	273,313
Bulk Storage	76	352,539	8	1,400	15	3,782	99	357,721
Onshore Production	83	8,084	28	6,858	56	402,498	167	417,440
Offshore Production	260	11,735	0	0	6	16	266	11,751
Other	141	9,542	35	16,485	32	102,297	208	128,324
TOTAL	597	654,747	73	24,943	117	508,859	787	1,188,549
PIPELINES	41	173,599	2	5	2	1	45	173,605
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	2	2	0	0	0	0	2	2
Bulk Transfer	11	1,789	0	0	2	90	13	1,879
Non-Bulk Transfer	0	0	0	0	0	0	0	0
Other	305	80,497	18	25,258	19	16,052	342	121,807
TOTAL	318	82,288	18	25,258	21	16,142	357	123,688
LAND FACILITIES	256	23,779	41	66,020	52	5,722	349	95,521
MISC/UNKNOWN	1,538	297,449	128	113,705	622	292,335	2,288	703,489
GRAND TOTAL	5,762	4,440,452	371	453,900	1,351	859,973	7,484	5,754,325

SOURCE: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1983, 1984, 1985, 1986.

Total and Average Consumption of Motor Fuel by United States Motor Vehicles

Year	Passenger Cars(a) Number Registered (thousands)	Passenger Cars(a) Motor Fuel Consumption (million gallons)	Passenger Cars(a) Average Consumption Per Vehicle (gallons)	Motor Trucks Number Registered (thousands)	Motor Trucks Motor Fuel Consumption (million gallons)	Motor Trucks Average Consumption Per Vehicle (gallons)	Buses(b) Number Registered (thousands)	Buses(b) Motor Fuel Consumption (million gallons)	Buses(b) Average Consumption Per Vehicle (gallons)
1947	30,872	20,086	651	6,650	7,243	1,089	176	778	4,420
1948	33,394	21,369	640	7,379	8,189	1,110	184	780	4,239
1949	36,429	22,873	628	7,840	8,666	1,105	190	772	4,063
1950	40,311	24,305	603	8,403	10,566	1,257	195	732	3,752
1951	42,835	26,159	611	8,790	11,171	1,220	198	751	3,797
1952	43,741	27,969	639	9,055	11,849	1,303	206	766	3,723
1953	46,460	29,613	637	9,576	12,245	1,279	244	771	3,156
1954	48,413	30,915	639	9,726	12,541	1,289	233	755	3,240
1955	52,092	33,548	644	10,413	13,306	1,278	255	771	3,021
1956	54,249	35,326	651	10,737	13,978	1,302	255	802	3,145
1957	56,375	36,769	652	10,961	14,271	1,302	264	825	3,125
1958	57,392	38,095	664	11,159	14,514	1,301	270	809	2,996
1959 (c)	60,132	40,056	666	11,671	15,453	1,324	265	823	3,106
1960	62,258	41,169	661	11,945	15,882	1,330	272	827	3,040
1961	63,870	42,033	658	12,291	16,443	1,338	281	830	2,957
1962	66,638	43,771	657	12,809	17,089	1,334	288	837	2,906
1963	69,842	45,246	648	13,360	18,432	1,380	298	838	2,813
1964	72,969	47,567	652	14,013	19,470	1,389	305	864	2,829
1965	76,634	49,723	649	14,795	20,506	1,386	314	875	2,784
1966	79,878	54,987	688	15,503	18,842	1,215	322	835	2,593
1967	82,352	57,546	699	16,169	19,325	1,195	338	860	2,545
1968	85,694	61,176	714	16,942	20,867	1,232	352	907	2,578
1969	89,174	64,850	727	17,874	22,395	1,253	364	889	2,442
1970	92,068	67,879	737	18,797	23,629	1,257	378	820	2,172
1971	96,062	71,423	744	19,871	25,292	1,273	397	844	2,125
1972	100,842	76,308	757	21,308	27,830	1,306	407	924	2,270
1973	106,356	78,772	741	23,244	30,713	1,321	425	988	2,326
1974	109,823	75,191	685	24,630	30,144	1,224	447	965	2,159
1975	111,670	76,560	686	25,781	31,371	1,217	462	1,053	2,279
1976	115,122	79,813	693	27,876	34,840	1,250	476	1,046	2,188
1977	117,221	80,524	687	29,314	38,127	1,301	491	974	1,984
1978	121,441	81,804	674	31,336	42,274	1,349	505	989	1,957
1979	123,851	77,476	626	32,914	43,642	1,326	527	996	1,891
1980	127,295	72,087	566	33,667	41,854	1,243	529	1,018	1,926
1981	129,030	71,168	552	34,644	42,231	1,219	544	1,054	1,938
1982	129,456	70,260	543	35,382	42,142	1,191	559	982	1,756
1983	132,029	70,082	531	36,723	45,121	1,229	583	878	1,507
1984	133,638	68,893	516	37,507	49,050	1,308	584	793	1,359
1985	137,128	69,450	506	39,196	51,037	1,302	593	835	1,407
1986	140,693	71,404	508	40,069	52,911	1,320	594	869	1,463
1987	142,125	70,763	498	41,144	55,850	1,357	602	903	1,500

See notes and sources at end of table

Total and Average Consumption of Motor Fuel by United States Motor Vehicles

Year	Passenger Cars(a)			Motor Trucks			Buses(b)		
	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1988	145,836	72,149	495	42,529	57,186	1,345	616	921	1,496
1989	147,460	72,956	495	43,610	57,912	1,328	625	949	1,518
1990	147,809	72,626	491	44,479	58,056	1,305	627	901	1,436

(a) Travel by motorcycles included with passenger cars.
(b) Includes commercial, school and non-revenue buses.
(c) Includes Alaska and Hawaii beginning in 1959.

SOURCE: 1947-1985: Federal Highway Administration, Highway Statistics Summary to 1985
1986-1990: Federal Highway Administration, Highway Statistics, Annual

Total and Average Travel by United States Motor Vehicles

Year	Passenger Cars(a)			Motor Trucks			Buses(b)		
	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	300,440	9,732	14.95	66,203	9,955	9.14	4,251	24,153	5.46
1948	319,665	9,573	14.96	74,009	10,030	9.04	4,283	23,277	5.49
1949	342,478	9,401	14.97	77,731	9,915	8.97	4,252	22,326	5.51
1950	363,613	9,020	14.95	90,552	10,776	8.57	4,081	20,910	5.57
1951	392,131	9,154	14.99	94,844	10,790	8.49	4,118	20,820	5.48
1952	410,187	9,378	14.67	99,060	10,940	8.36	4,334	21,062	5.66
1953	435,351	9,370	14.70	104,633	10,927	8.54	4,449	18,234	5.77
1954	450,605	9,308	14.58	105,844	10,883	8.44	4,408	18,918	5.84
1955	487,540	9,359	14.53	111,387	10,697	8.37	4,507	17,658	5.85
1956	507,138	9,348	14.36	116,100	10,813	8.31	4,605	18,059	5.74
1957	529,332	9,391	14.40	113,190	10,328	7.93	4,393	16,640	5.32
1958	544,873	9,494	14.30	115,470	10,348	7.96	4,310	15,963	5.33
1959 (c)	572,976	9,529	14.30	123,154	10,552	7.97	4,348	16,408	5.28
1960	588,083	9,446	14.28	126,409	10,583	7.96	4,353	16,004	5.26
1961	604,557	9,465	14.38	128,582	10,461	7.82	4,396	15,661	5.30
1962	629,097	9,441	14.37	133,289	10,406	7.80	4,466	15,507	5.34
1963	645,371	9,240	14.26	155,569	11,644	8.44	4,483	15,049	5.35
1964	677,613	9,286	14.25	164,271	11,723	8.43	4,616	15,115	5.34
1965	709,300	9,255	14.27	173,656	11,737	8.47	4,684	14,903	5.35
1966	777,480	9,733	14.14	143,891	9,281	7.64	4,528	14,055	5.42
1967	811,046	9,849	14.09	148,332	9,174	7.68	4,627	13,693	5.38
1968	850,288	9,922	13.90	160,656	9,483	7.70	4,925	14,001	5.43
1969	884,705	9,921	13.64	172,266	9,638	7.69	4,820	13,234	5.42
1970	919,679	9,989	13.55	185,501	9,869	7.85	4,544	12,035	5.54
1971	969,947	10,097	13.58	204,072	10,270	8.07	4,792	12,068	5.68
1972	1,025,696	10,171	13.44	228,742	10,735	8.22	5,348	13,144	5.79
1973	1,051,175	9,884	13.34	256,143	11,020	8.34	5,792	13,631	5.86
1974	1,012,696	9,221	13.47	262,164	10,644	8.70	5,684	12,715	5.89
1975	1,039,579	9,309	13.58	282,030	10,940	8.99	6,055	13,102	5.75
1976	1,084,218	9,418	13.58	311,904	11,189	8.95	6,258	13,083	5.98
1977	1,115,592	9,517	13.85	345,612	11,790	9.06	5,823	11,865	5.98
1978	1,153,666	9,500	14.10	385,153	12,291	9.11	5,885	11,645	5.95
1979	1,122,277	9,062	14.49	400,909	12,181	9.19	5,947	11,290	5.97
1980	1,121,810	8,813	15.56	399,426	11,864	9.54	6,059	11,458	5.95
1981	1,141,517	8,847	16.04	405,045	11,692	9.59	6,241	11,475	5.92
1982	1,176,166	9,085	16.74	413,021	11,673	9.80	5,823	10,413	5.93
1983	1,206,792	9,140	17.22	440,806	12,004	9.77	5,199	8,919	5.92
1984	1,233,703	9,232	17.91	481,926	12,849	9.83	4,640	7,950	5.85
1985	1,269,651	9,259	18.28	499,652	12,747	9.79	4,876	8,216	5.84
1986	1,310,611	9,315	18.35	519,188	12,957	9.81	5,073	8,544	5.84
1987	1,364,836	9,603	19.29	551,050	13,393	9.87	5,318	8,833	5.89
1988	1,439,603	9,871	19.95	580,893	13,659	10.16	5,466	8,878	5.93

See notes and sources at end of table

Total and Average Travel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1989	1,488,140	10,092	20.40	602,657	13,819	10.41	5,659	9,054	5.96
1990	1,524,942	10,317	21.00	616,831	13,868	10.62	5,728	9,136	6.36

(a) Travel by motorcycles included with passenger cars.
(b) Includes commercial, school and non-revenue buses.
(c) Includes Alaska and Hawaii beginning in 1959.

SOURCE: 1947-1985: Federal Highway Administration, Highway Statistics Summary to 1985.
1986-1990: Federal Highway Administration, Highway Statistics, Annual

Market Shares and Total Model Year Sales of New Domestic and Import Automobiles

Year	Minicompact	Subcompact	Compact	Midsize	Large	Two Seater	Total Sales
1976	NA	27.1%	29.3%	18.7%	22.8%	2.1%	9,686,855
1977	8.1	19.1	26.9	19.2	24.6	2.1	10,565,797
1978	8.5	19.0	15.2	33.0	22.3	1.9	11,090,649
1979	5.5	30.7	8.4	33.8	19.4	2.1	10,788,257
1980	4.7	37.8	6.6	33.8	14.7	2.4	9,094,506
1981	3.3	33.0	13.4	35.1	12.5	2.7	8,879,864
1982	2.9	31.4	17.0	33.1	13.0	2.6	7,658,171
1983	2.6	26.8	22.0	31.7	14.5	2.3	8,770,413
1984	0.4	24.6	27.1	30.0	14.7	3.2	10,211,065
1985	0.5	20.5	33.4	28.4	13.8	3.4	10,968,515
1986	1.7	21.2	34.5	26.9	13.2	2.5	11,099,046
1987	1.4	18.2	40.3	24.3	13.4	2.4	10,434,137
1988	0.8	19.1	40.5	24.6	13.2	1.8	10,372,985
1989	0.2	19.3	36.3	28.9	13.8	1.6	10,173,827
1990	0.8	22.0	34.2	27.2	13.9	1.8	9,224,465

NA = Not Available

SOURCE: 1976-1989: Oak Ridge National Laboratory, Light-Duty Vehicle MPG and Market Shares Report: Model Year 1989
1990: Oak Ridge National Laboratory, Highway Vehicle MPG and Market Shares Report: Model Year 1990.

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Section XII
Table 10

Mileage and Deliveries for United States Liquid Pipelines

Year	Miles of Pipelines				Deliveries (mb)		
		Trunk					
	Gathering	Crude	Products	Total	Crude	Products	Total
1979	36,927	58,606	74,261	169,794	6,728,193	4,412,059	11,140,252
1980	35,279	59,560	74,510	169,349	6,404,640	4,194,940	10,599,580
1981	38,558	57,904	76,353	172,815	6,069,575	4,152,962	10,222,537
1982	35,580	59,567	77,402	172,549	5,967,624	4,213,086	10,180,710
1983	30,966	57,466	79,387	167,819	6,020,301	4,289,301	10,309,602
1984	36,072	56,975	80,875	173,922	5,671,448	4,552,237	10,223,685
1985	35,021	55,844	80,536	171,401	6,238,731	4,505,992	10,744,723
1986	34,209	54,153	81,652	170,014	6,366,433	4,715,889	11,082,322
1987	35,055	54,886	77,924	167,865	6,277,670	4,916,665	11,194,335
1988	34,311	55,900	80,246	170,457	6,509,367	4,974,279	11,483,646
1989	33,349	55,664	79,624	168,637	6,434,559	4,846,481	11,281,040
1990	32,349	55,504	80,511	168,364	6,562,462	4,815,951	11,378,413

SOURCE: The Oil and Gas Journal, Pipeline Economics issue.

Mileage and Compressor Stations for United States Natural Gas Pipelines

Year	Miles of Pipeline				Total Compressor Stations		
	Transmission	Field	Storage	Total	Transmission	Other	Total
1980	169,648	68,641	7,252	265,541	1,127	866	1,993
1981	196,942	72,812	4,610	274,364	1,097	860	1,957
1982	204,896	76,073	6,030	286,999	1,116	995	2,111
1983	203,403	75,095	6,706	285,204	1,367	1,342	2,709
1984	187,465	66,172	4,742	258,379	1,152	898	2,050
1985	197,727	77,145	4,523	279,395	1,629	726	2,355
1986	201,662	72,934	5,274	279,870	1,537	911	2,448
1987	198,578	72,981	8,526	280,085	1,331	897	2,228
1988	204,192	72,393	4,796	281,381	1,336	938	2,274
1989	205,606	63,201	4,594	273,401	1,458	783	2,241
1990	208,358	62,148	4,436	274,942	1,513	766	2,279

SOURCE: The Oil and Gas Journal, Pipeline Economics issue.

BASIC PETROLEUM DATA BOOK

SECTION XIII. NATURAL GAS

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Estimated Proved World Reserves of Natural Gas
Annually as of January 1
(Trillions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Pacific	Asia-Europe	Sub Total	Communist Nations	USSR/ E. Europe(b)	Total World
1967	289.3	45.0	64.6	398.9	215.1	158.2	32.5	87.7	892.4	150.9	NA	1043.3
1968	292.9	48.0	67.1	408.0	220.2	167.2	40.1	131.0	966.5	219.0	NA	1185.5
1969	287.3	46.5	62.9	396.7	223.6	168.3	52.7	138.4	979.7	346.0	NA	1325.7
1970	275.1	50.7	163.2	489.0	235.1	198.1	67.5	147.5	1137.8	353.5	NA	1491.3
1971	290.7 (a)	60.5	73.1	424.3	354.1	191.5	56.3	146.7	1172.9	441.2	NA	1614.1
1972	278.8 (a)	54.4	72.7	405.9	343.8	193.0	69.8	161.6	1174.1	559.8	NA	1733.9
1973	266.1 (a)	55.0	79.2	400.3	344.0	189.0	101.2	176.6	1211.1	666.4	NA	1877.5
1974	250.0 (a)	50.3	91.3	391.6	413.1	187.7	114.2	192.2	1298.8	737.2	NA	2036.0
1975	237.1 (a)	52.5	100.2	389.8	672.4	315.0	115.9	201.1	1694.2	848.0	NA	2542.2
1976	228.2 (a)	53.4	90.5	372.1	538.1	207.2	111.6	179.9	1408.9	836.5	NA	2245.4
1977	216.0 (a)	56.0	90.3	362.3	535.9	209.1	120.0	140.9	1368.2	954.5	NA	2322.7
1978	208.9 (a)	58.0	108.5	375.4	719.1	207.5	122.7	137.3	1562.0	956.4	NA	2518.4
1979	200.3 (a)	59.0	113.0	372.3	730.2	186.3	119.9	142.4	1551.1	946.3	NA	2497.4
1980	194.9 (a)	85.5	144.5	424.9	739.8	210.4	128.8	134.9	1638.8	936.0	NA	2574.8
1981	199.0 (a)	87.3	149.0	435.3	751.9	208.5	126.3	158.3	1680.3	955.4	NA	2635.7
1982	201.7 (a)	89.9	176.3	467.9	761.9	211.7	127.6	151.2	1720.3	1194.7	NA	2915.0
1983	201.5 (a)	97.0	186.6	485.1	769.2	189.4	146.2	157.3	1747.2	1283.8	NA	3031.0
1984	200.2 (a)	90.5	186.4	477.1	774.0	189.6	156.2	158.3	1755.2	1446.8	NA	3202.0
1985	197.5 (a)	92.3	184.9	474.7	869.4	187.2	166.2	206.7	1904.2	1497.4	NA	3401.6
1986	193.4 (a)	99.7	189.3	482.4	855.9	198.3	171.5	226.4	1934.5	1546.0	NA	3480.5
1987	191.6 (a)	99.6	190.1	481.3	925.3	201.4	198.6	229.7	2036.3	1595.8	NA	3632.1
1988	187.2 (a)	98.0	226.7	511.9	1084.0	248.6	224.8	218.2	2287.5	1510.0	NA	3797.5
1989	168.0	95.1	236.1	499.2	1182.1	253.3	240.7	200.1	2375.4	1560.7	NA	3936.1
1990	167.1	94.3	233.7	495.1	1226.2	266.7	248.0	191.9	2427.9	1563.3	NA	3991.2
1991	169.3	97.6	242.3	506.1	1324.3	285.1	298.6	175.3	2589.4	NA	1619.0	4208.3

(a) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available.

(b) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1967-1980: United States: American Gas Association, Committee on Natural Gas Reserves
1981-1991: United States: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Annual Report
1967-1991: Rest of the World: The Oil & Gas Journal, "Worldwide Report" issues

Section XIII
Table 2

The Supply of United States Natural Gas
(Millions of cubic feet - 14.72 psia at 60 F.)

Year	Proved Reserves at Start of Year (c)	Reserve Revisions, Extensions and Discoveries During Year	Net Change In Underground Storage(d)	Production During Year(a)	Proved Reserves at Year-end(c)
1947	160,575,901	10,980,824	NA	5,629,811	165,926,914
1948	165,926,914	13,898,572	51,482	6,007,628	173,869,340
1949	173,869,340	12,674,299	82,746	6,245,041	180,381,344 (e)
1950	179,401,693 (e)	11,984,290	54,006	6,855,244	184,584,745
1951	184,584,745	15,965,808	132,030	7,923,673	192,758,910
1952	192,758,910	14,267,606	197,766	8,592,716	198,631,566
1953	198,631,566	20,341,933	513,629 (b)	9,188,365	210,298,763
1954	210,298,763	9,547,074	90,408	9,375,314	210,560,931
1955	210,560,931	21,897,616	87,164	10,063,167	222,482,544
1956	222,482,544	24,716,115	133,241	10,848,685	236,483,215
1957	236,483,215	20,008,051	178,761	11,439,890	245,230,137
1958	245,230,137	18,896,724	57,582	11,422,651	252,761,792
1959	252,761,792	20,621,249	160,453	12,373,036	261,170,431
1960	261,170,431	13,893,978	281,272	13,019,356	262,326,326
1961	262,326,326	17,166,421	159,544	13,378,649	266,273,642
1962	266,273,642	19,483,958	159,231	13,637,973	272,278,858
1963	272,278,858 (f)	18,164,667	253,733	14,546,025	276,151,233
1964	276,151,233	20,252,139	195,110	15,347,028	281,251,454
1965	281,251,454	21,319,279	150,483	16,252,293	286,468,923
1966	286,468,923	20,220,432	134,523	17,491,073	289,332,805
1967	289,332,805	21,804,333	151,403	18,380,838	292,907,703
1968	292,907,703	13,697,008	118,569	19,373,428	287,349,852
1969	287,349,852	8,375,004	107,169	20,723,190	275,108,835
1970	275,108,835	37,196,359 (c)	402,018	21,960,804	290,746,408
1971	290,746,408	9,825,421	310,301	22,076,512	278,805,618
1972	278,805,618	9,634,563	156,563	22,511,898	266,084,846
1973	266,084,846	6,825,049	(354,282)	22,605,406	249,950,207
1974	249,950,207	8,679,184	(178,424)	21,318,470	237,132,497
1975	237,132,497	10,483,688	302,561	19,718,570	228,200,176
1976	228,200,176	7,555,468	(187,550)	19,542,020	216,026,074
1977	216,026,074	11,851,924	446,930	19,447,050	208,877,878
1978	208,877,878	10,586,144	148,733	19,311,048	200,301,707
1979	200,301,707	14,285,947	239,323	19,910,353	194,916,624
1980 (g)	200,997,000	16,723,000	NA	18,699,000	199,021,000
1981	199,021,000	21,446,000	NA	18,737,000	201,730,000
1982	201,730,000	17,288,000	NA	17,506,000	201,512,000
1983	201,512,000	14,523,000	NA	15,788,000	200,247,000
1984	200,247,000	14,409,000	NA	17,193,000	197,463,000
1985	197,463,000	11,891,000	NA	15,985,000	193,369,000
1986	193,369,000	13,827,000	NA	15,610,000	191,586,000
1987	191,586,000	11,739,000	NA	16,114,000	187.211,000

See notes and sources at end of table

Section XIII
Table 2a

The Supply of United States Natural Gas
(Millions of cubic feet - 14.72 psia at 60 F.)

Year	Proved Reserves at Start of Year (c)	Reserve Revisions, Extensions and Discoveries During Year	Net Change In Underground Storage(d)	Production During Year(a)	Proved Reserves at Year-end(c)
1988 (h)	187,211,000	(2,517,000)	NA	16,670,000	168,024,000
1989	168,024,000	16,075,000	NA	16,983,000	167,116,000
1990	167,116,000	19,463,000	NA	17,233,000	169,346,000

NA = Not Available
(a) Estimated.
(b) All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.
(c) Figures from 1971 to 1987 include 26 trillion cubic feet in Prudhoe Bay, Alaska, (discovered in 1968).
(d) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).
(e) Natural gas reserves have been revised back to 1950. Because of this, proved reserves at year-end 1949 and proved reserves at start of year 1950 are not the same.
(f) Excludes gas loss due to natural gas liquids recovery.
(g) Beginning in 1980, the data used are from the Department of Energy. Because of different methodology, the reserves at start of year (from DOE) differ from reserves at year-end 1979 (from AGA).
(h) An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during that last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

SOURCE: 1947-1979: American Gas Association, Committee on Natural Gas Reserves, Gas Facts.
1980-1990: U.S. Energy Information Administration, US Crude and Natural Gas and NGL Reserves.

The Reserves of United States Natural Gas Liquids
(Thousands of Barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1947	3,163,219	251,538	160,782	3,253,975	20.2
1948	3,253,975	470,557	183,749	3,540,783	19.3
1949	3,540,783	386,776	198,547	3,729,012	18.8
1950	3,729,012	766,062	227,411	4,267,663	18.8
1951	4,267,663	723,991	267,052	4,724,602	17.7
1952	4,724,602	556,838	284,789	4,996,651	17.5
1953	4,996,651	743,969	302,698	5,437,922	18.0
1954	5,437,922	107,350	300,815	5,244,457	17.4
1955	5,244,457	514,508	320,400	5,438,565	17.0
1956	5,438,565	809,820	346,053	5,902,332	17.1
1957	5,902,332	137,392	352,364	5,687,360	16.1
1958	5,687,360	858,206	341,548	6,204,018	18.2
1959	6,204,018	703,444	385,154	6,522,308	16.9
1960	6,522,308	725,130	431,379	6,816,059	15.8
1961	6,816,059	694,686	461,649	7,049,096	15.3
1962	7,049,096	732,549	470,128	7,311,517	15.6
1963	7,311,517	878,120	515,659	7,673,978	14.9
1964	7,673,978	608,744	536,090	7,746,632	14.4
1965	7,746,632	832,312	555,410	8,023,534	14.4
1966	8,023,534	894,116	588,684	8,328,966	14.1
1967	8,328,966	929,758	644,493	8,614,231	13.4
1968	8,614,231	685,659	701,782	8,598,108	12.2
1969	8,598,108	281,028	735,962	8,143,174	11.1
1970	8,143,174	307,579	747,812	7,702,941	10.3
1971	7,702,941	347,720	746,434	7,304,227	9.8
1972	7,304,227	238,273	755,941	6,786,559	9.0
1973	6,786,559	408,979	740,831	6,454,707	8.7
1974	6,454,707	619,841	724,099	6,350,449	8.8
1975	6,350,449	618,504	701,123	6,267,830	8.9
1976	6,267,830	834,766	700,629	6,401,967	9.1
1977	6,401,967	291,171	698,773	5,994,365	8.6
1978	5,994,365	595,666	664,179	5,925,852	8.9
1979 (a)	6,772,000	570,000	727,000	6,615,000	9.1
1980	6,615,000	844,000	731,000	6,728,000	9.1
1981	6,728,000	1,081,000	741,000	7,068,000	9.3
1982	7,068,000	874,000	721,000	7,221,000	9.9
1983	7,221,000	1,405,000	725,000	7,901,000	10.9
1984	7,901,000	518,000	776,000	7,643,000	9.8
1985	7,643,000	1,054,000	753,000	7,944,000	10.5
1986	7,944,000	959,000	738,000	8,165,000	11.1
1987	8,165,000	729,000	747,000	8,147,000	10.9
1988	8,147,000	845,000	754,000	8,238,000	10.9
1989	8,238,000	262,000	731,000	7,769,000	10.6

See notes and sources at end of table

The Reserves of United States Natural Gas Liquids (Thousands of Barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1990	7,769,000	549,000	732,000	7,586,000	10.6

(a) Figures beginning with 1979 are from the Department of Energy data, using a different methodology from prior data. Therefore, year-end 1978 and start of year 1979 data are not the same.

SOURCE: 1947-1978: American Gas Association.
1979-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual.

World Marketed Production of Natural Gas by Area
(Billions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	Communist Nations	USSR/ E.Europe(a)	Total World
1950	6,282.1	71.7	260.0	6,613.8	0.0	0.0	55.4	33.2	6,702.4	NA	NA	6,702.4
1951	7,457.4	84.0	201.4	7,742.7	0.0	0.0	72.7	52.0	7,867.4	255.3	NA	8,122.7
1952	8,013.5	93.7	223.5	8,330.7	0.0	0.0	85.2	61.9	8,477.8	305.4	NA	8,783.2
1953	8,396.9	106.7	255.0	8,758.7	0.0	0.1	99.6	100.4	8,958.8	503.6	NA	9,462.4
1954	8,742.5	127.6	273.1	9,143.3	0.0	0.3	106.3	131.3	9,381.1	538.3	NA	9,919.4
1955	9,405.4	150.8	356.2	9,912.3	0.0	0.5	82.3	189.8	10,184.9	524.9	NA	10,709.8
1956	10,081.9	169.2	368.2	10,619.2	15.6	0.5	101.8	227.5	10,964.6	656.9	NA	11,621.5
1957	10,680.3	220.0	458.6	11,358.9	25.6	0.4	114.2	251.8	11,750.9	926.2	NA	12,677.0
1958	11,030.3	337.8	616.1	11,984.2	26.3	4.4	119.7	267.5	12,402.1	1,379.7	NA	13,781.7
1959	12,046.1	417.3	714.0	13,177.4	44.5	14.4	133.3	346.9	13,716.6	1,688.0	NA	15,404.6
1960	12,771.0	523.0	775.9	14,069.9	57.3	5.8	157.8	433.8	14,724.7	2,191.9	NA	16,916.6
1961	13,254.0	655.7	864.1	14,773.8	172.1	20.4	170.7	502.2	15,639.2	2,748.4	NA	18,387.6
1962	13,876.6	946.7	956.4	15,779.8	173.3	31.3	193.7	548.4	16,726.4	3,366.0	NA	20,092.4
1963	14,666.6	1,111.5	702.5	16,480.5	149.2	16.0	135.2	560.0	17,340.8	3,678.2	NA	21,018.9
1964	15,462.1	1,327.7	721.6	17,511.4	162.6	33.2	155.3	608.9	18,471.4	4,397.1	NA	22,868.5
1965	16,039.8	1,442.4	779.9	18,262.2	171.2	67.9	168.3	671.1	19,340.6	5,139.6	NA	24,480.2
1966	17,206.6	1,341.8	870.8	19,419.2	193.1	80.1	184.9	796.7	20,674.0	5,771.8	NA	26,445.9
1967	18,171.3	1,471.7	883.5	20,526.5	229.3	85.0	215.3	1,018.6	22,074.8	6,323.0	NA	28,397.8
1968	19,322.4	1,692.3	1,061.6	22,076.3	388.2	96.5	330.3	1,439.1	24,330.3	7,072.9	NA	31,403.1
1969	20,698.2	1,977.8	1,143.3	23,819.4	441.7	113.8	431.1	2,009.7	26,815.7	7,569.4	NA	34,385.1
1970	21,920.6	2,277.1	1,276.6	25,474.4	454.1	122.2	525.3	2,789.0	29,365.0	8,728.9	NA	38,094.0
1971	22,493.0	2,499.0	1,362.6	26,354.7	698.0	522.6	559.8	3,580.7	31,715.8	9,472.6	NA	41,188.4
1972	22,531.7	2,913.5	1,456.6	26,901.8	905.6	471.8	606.0	4,501.1	33,386.4	10,127.5	NA	43,513.9
1973	22,647.5	3,119.5	1,615.8	27,382.8	1,276.9	585.8	775.9	5,148.0	35,169.4	10,958.4	NA	46,127.8
1974	21,600.5	3,045.5	1,659.1	26,305.1	1,423.4	607.7	880.9	5,837.0	35,054.2	12,117.3	NA	47,171.5
1975	20,108.7	3,075.7	1,735.1	24,919.4	1,436.2	670.4	938.4	5,966.7	33,931.1	13,276.3	NA	47,207.3
1976	19,952.4	3,067.4	1,722.1	24,741.9	1,492.8	905.8	1,173.9	6,343.6	34,657.9	14,801.3	NA	49,459.2
1977	20,025.5	3,230.7	1,865.7	25,121.9	1,507.0	919.5	1,329.0	6,502.5	35,379.8	14,720.3	NA	50,100.1
1978	19,974.0	3,128.1	2,012.9	25,115.0	1,579.5	1,117.4	1,469.2	6,649.9	35,930.9	15,818.4	NA	51,749.3
1979	20,471.3	3,646.5	2,610.0	26,727.8	1,624.7	1,027.9	1,827.9	6,866.8	38,075.1	19,591.4	NA	57,666.5
1980	20,179.7	2,668.3	3,297.5	26,145.5	1,221.3	884.7	2,558.4	6,666.7	37,476.6	21,069.9	NA	58,546.5
1981	19,955.8	2,623.0	3,227.0	25,805.8	1,542.0	1,947.0	2,765.0	6,906.0	38,965.8	19,210.0	NA	58,175.8
1982	18,519.7	2,546.1	3,071.5	24,137.3	1,799.7	1,168.9	2,176.6	6,142.1	35,424.6	20,258.0	NA	55,682.6
1983	16,822.1	2,414.1	3,340.5	22,576.7	1,633.0	1,143.8	2,187.7	6,383.4	33,924.6	21,383.0	NA	55,307.6
1984	18,229.6	2,651.8	3,451.8	24,333.2	1,533.4	1,629.1	2,530.7	6,795.4	36,821.8	23,272.1	NA	60,093.9
1985	17,198.0	3,350.6	3,443.2	23,991.8	1,723.7	1,764.0	3,030.8	6,647.2	37,157.5	25,457.9	NA	62,615.4
1986	16,791.0	3,168.3	3,413.6	23,372.9	1,822.8	1,661.8	3,320.9	6,519.6	36,698.0	27,088.2	NA	63,786.2
1987	17,348.5	3,472.7	3,354.5	24,175.7	2,624.1	2,025.7	3,797.6	7,043.9	39,667.0	28,742.5	NA	68,409.5
1988	17,841.5	3,990.2	3,525.8	25,357.5	2,890.3	2,089.3	4,072.5	6,593.7	41,003.3	30,313.7	NA	71,317.0
1989	18,044.5	4,161.0	3,552.3	25,757.8	3,645.5	2,892.3	4,379.6	6,726.2	43,401.4	30,950.9	NA	74,352.3

See notes and sources at end of table

World Marketed Production of Natural Gas by Area
(Billions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	Communist Nations	USSR/ E.Europe(a)	Total World
1990	18,561.6	4,267.0	3,640.1	26,468.7	4,233.9	2,201.6	4,552.0	6,823.7	44,279.9	NA	31,013.8	75,293.7

NA = Not Available
(a) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1950-1967: U.S. Bureau of Mines, Minerals yearbook, Annual
1968-1974: U.S. Bureau of Mines, World Natural Gas
1975-1978: U.S. Energy Information Administration, World Natural Gas, Annuals
1979-1990: United States: U.S. Energy Information Administration, Natural Gas Annual
1979-1990: Rest of World: International Petroleum Encylopedia. Copyright PennWell Books, 1991

Salient Statistics of Natural Gas in the United States
(Millions of Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Total Vented and Flared
1947	4,582,173	18,149	4,426,544	-	274,709	86,643	96,316	127,807	1,067,938
1948	5,148,020	18,704	4,945,149	-	333,173	79,035	136,406	126,796	810,178
1949	5,419,736	20,054	5,195,484	-	344,034	106,368	172,051	138,515	853,884
1950	6,282,060	25,727	6,026,404	-	408,521	175,260	229,752	175,437	801,044
1951	7,457,359	24,163	7,102,562	-	542,964	209,428	347,690	192,372	793,186
1952	8,013,457	27,456	7,613,478	7,807	623,649	221,909	398,593	203,646	848,608
1953	8,396,916	28,322	7,979,338	9,225	774,966	246,802	404,838	240,445	810,276
1954	8,742,546	28,726	8,402,852	6,847	882,501	330,177	432,283	215,709	723,567
1955	9,405,351	31,029	9,070,343	10,888	978,357	437,251	505,185	246,933	773,639
1956	10,081,923	35,963	9,706,878	10,380	1,083,812	452,762	589,232	212,992	727,004
1957	10,680,258	41,655	10,279,775	37,941	1,201,759	480,981	672,377	205,373	809,148
1958	11,030,298	38,719	10,760,698	135,797	1,317,492	621,091	704,172	283,597	633,412
1959	12,046,115	18,413	11,819,638	133,990	1,556,800	668,743	787,485	223,312	571,048
1960	12,771,038	11,332	12,509,427	155,646	1,789,970	712,658	844,352	274,231	562,877
1961	13,182,029	10,689	13,010,654	217,671	1,996,241	694,258	839,083	233,532	523,533
1962	13,801,244	15,728	13,814,678	399,353	2,145,301	849,695	935,712	284,174	425,629
1963	14,666,559	16,865	14,560,953	403,997	2,328,030	911,741	1,041,802	362,677	383,408
1964	15,462,143	19,497	15,451,979	440,918	2,387,689	880,498	1,009,302	302,781	339,996
1965	16,039,753	26,132	16,033,189	456,394	2,494,542	959,865	1,077,980	318,711	319,143
1966	17,206,628	24,639	17,191,711	479,780	2,702,759	1,141,614	1,210,469	401,203	267,514
1967	18,171,325	81,614	18,172,894	564,226	2,898,741	1,132,534	1,317,363	296,214	489,877
1968	19,322,400	93,745	19,459,939	651,885	3,168,688	1,329,536	1,425,075	325,062	516,508
1969	20,698,240	51,304	20,922,800	726,951	3,455,615	1,379,488	1,498,988	331,587	525,750
1970	21,920,642	69,813	22,045,799	820,780	3,745,680	1,458,607	1,856,767	227,650	489,460
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	1,507,630	1,839,398	338,999	284,561
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	1,757,218	1,892,952	328,002	248,119
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	1,532,820	1,974,324	195,863	248,292
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	1,700,546	1,784,209	288,731	169,381
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	1,759,565	2,103,619	235,065	133,913
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	1,921,017	1,755,690	216,240	131,930
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	1,749,884	2,306,515	41,063	136,807
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	2,157,765	2,278,002	287,201	153,350
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	2,047,000	2,295,034	372,330	167,019
1980	20,179,724	48,731	19,877,293	984,767	32,043,704	1,909,902	1,896,284	639,559	125,451
1981	19,955,823	59,372	19,403,858	903,949	39,551,253	1,886,940	2,179,683	500,501	98,017
1982	18,519,675	51,728	18,001,055	933,336	45,496,765	2,093,644	2,399,355	474,731	93,365
1983	16,822,144	54,638	16,834,914	919,752	43,614,369	2,142,027	1,700,426	642,059	94,962
1984	18,229,638	54,753	17,950,528	843,060	48,404,611	2,064,292	2,252,347	142,607	107,913
1985	17,197,999	57,095	17,280,943	949,715	43,182,598	2,359,405	2,127,932	354,065	94,778
1986	16,790,910	61,271	16,221,296	750,449	32,607,825	1,811,697	1,952,103	426,726	97,633
1987	17,348,537	54,020	17,210,809	992,532	28,888,630	1,880,951	1,887,110	432,893	123,707
1988	17,841,474	73,638	18,029,588	1,293,812	30,170,751	2,243,621	2,174,328	344,356	142,525

See notes and sources at end of table

Salient Statistics of Natural Gas in the United States
(Millions of Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Total Vented and Flared
1989	18,044,499	106,871	18,780,192	1,381,520	30,575,912	2,803,787	2,492,985	182,217	140,532
1990	18,561,596	85,565	18,714,003	1,532,259	31,740,329	1,949,490	2,450,667	116,865	150,460

SOURCE: 1947-1975: U.S. Bureau of Mines, Natural Gas Annuals
1976-1990: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 6

United States Imports of Natural Gas by Source
(million cubic feet)

Year	Canada	Mexico	Algeria(c)	Total Imports	U.S. Natural Gas Consumption
1968	604	47	NA	652	19,460
1969	680	47	NA	727	20,923
1970	780 (a)	41	(b)	821	22,046
1971	913 (a)	21	1	935	22,677
1972	1,009 (a)	8	2	1,019	22,101
1973	1,028 (a)	2	3	1,033	22,049
1974	959	(b)	0	959	21,223
1975	948	0	5	953	19,538
1976	954	0	10	964	19,946
1977	997	2	11	1,011	19,521
1978	881	0	84	966	19,627
1979	1,001	0	253	1,253	20,241
1980	797	102	86	985	19,877
1981	762 (a)	105	37	904	19,404
1982	783	95	55	933	18,001
1983	712	75	131	918	16,835
1984	755	52	36	843	17,951
1985	926	0	24	950	17,281
1986	749	0	0	750 (d)	16,221
1987	993	0	0	993	17,211
1988	1,276	0	17	1,294	18,030
1989	1,339	0	42	1,382	18,780
1990	1,448	0	84	1,532	18,714

(a) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, 0.7 billion cubic feet in 1973, and 0.6 billion cubic feet in 1981.
(b) Less than 500 million cubic feet.
(c) Liquefied natural gas.
(d) Includes a small amount from Indonesia.

SOURCE: 1968-1977: U.S. Energy Information Administration, World Natural Gas Annuals.
1978-1981: U.S. Energy Information Administration, U.S. Imports and Exports of Natural Gas
1982-1987: U.S. Energy Information Administration, Natural Gas Monthly, May issue.
1988-1990: U.S. Energy Information Administration, Natural Gas Annual.

Section XIII
Table 7

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1975	Nation	1976	Nation	1977	Nation	1978
1. U.S.S.R.	810,000	1. U.S.S.R	800,000	1. U.S.S.R.	918,000	1. U.S.S.R	920,000
2. Iran	330,000	2. Iran	329,500	2. Iran	330,000	2. Iran	500,000
3. United States	237,132	3. United States	228,200	3. United States	216,026	3. United States	208,878
4. Algeria	229,000	4. Algeria	126,000	4. Algeria	125,800	4. Algeria	125,000
5. United Arab Emirates	200,000	5. Saudi Arabia	103,000	5. Saudi Arabia	86,000	5. Saudi Arabia	85,000
6. Netherlands	94,800	6. Netherlands	70,000	6. Netherlands	61,900	6. Netherlands	60,000
7. Canada	56,708	7. Canada	56,975	7. Canada	58,282	7. Canada	58,000
8. Saudi Arabia	55,000	8. United Kingdom	50,000	8. Nigeria	44,000	8. Nigeria	43,000
9. United Kingdom	50,000	9. Nigeria	44,300	9. Venezuela	40,700	9. Venezuela	41,000
10. Nigeria	45,500	10. Venezuela	42,000	10. Australia	32,300	10. Qatar	40,000
11. Venezuela	43,000	11. Australia	32,500	11. Kuwait	31,700	11. Australia	32,000
12. Australia	38,000	12. Kuwait	31,800	12. United Kingdom	30,000	12. Kuwait	31,500
13. Kuwait	32,000	13. Libya	26,300	13. Qatar	27,500	13. Mexico	30,000
14. Iraq	27,500	14. Norway	25,000	14. Iraq	27,000	14. United Kingdom	29,000
15. Libya	26,500	15. China	25,000	15. Libya	25,800	15. Iraq	28,000
16. China	25,000	16. United Arab Emirates	20,000	16. China	25,000	16. Libya	25,700
17. Norway	24,700	17. Pakistan	16,400	17. Indonesia	24,000	17. China	25,000
18. Brunei-Malaysia	22,000	18. Indonesia	15,000	18. Norway	18,500	18. Indonesia	24,000
19. Indonesia	15,000	19. Malaysia	15,000	19. Pakistan	15,820	19. United Arab Emirates	20,000
20. Mexico	15,000	20. Bolivia	10,800	20. Malaysia	15,000	20. Norway	20,000
Total World	2,546,404	Total World	2,248,897	Total World	2,114,905	Total World	2,518,437

See notes and sources at end of table

Section XIII
Table 7a

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1979	Nation	1980	Nation	1981	Nation	1982
1. U.S.S.R.	910,000	1. U.S.S.R.	900,000	1. U.S.S.R.	920,000	1. U.S.S.R.	1,160,000
2. Iran	500,000	2. Iran	490,000	2. Iran	485,000	2. Iran	484,000
3. United States	200,302	3. United States	194,917	3. United States	199,021	3. United States	201,730
4. Algeria	105,000	4. Algeria	132,000	4. Algeria	131,500	4. Algeria	130,900
5. Saudi Arabia	93,900	5. Saudi Arabia	93,230	5. Saudi Arabia	110,000	5. Saudi Arabia	114,000
6. Netherlands	62,000	6. Canada	85,500	6. Canada	87,300	6. Canada	89,900
7. Canada	59,000	7. Qatar	60,000	7. Mexico	64,500	7. Mexico	75,350
8. Nigeria	42,000	8. Netherlands	59,500	8. Netherlands	62,000	8. Qatar	60,000
9. Venezuela	41,000	9. Mexico	59,000	9. Qatar	60,000	9. Netherlands	55,700
10. Qatar	40,000	10. Venezuela	42,800	10. Norway	42,700	10. Norway	49,370
11. Mexico	32,000	11. Nigeria	41,400	11. Venezuela	42,000	11. Venezuela	47,000
12. Kuwait	31,300	12. Kuwait	31,000	12. Nigeria	41,000	12. Nigeria	40,500
13. Australia	31,000	13. Australia	31,000	13. Kuwait	30,800	13. Kuwait	30,500
14. Iraq	27,800	14. Iraq	27,500	14. Australia	30,000	14. Indonesia	27,400
15. United Kingdom	27,000	15. United Kingdom	25,000	15. Iraq	27,450	15. Iraq	27,300
16. China	25,000	16. China	25,000	16. United Kingdom	24,800	16. United Kingdom	26,000
17. Libya	24,200	17. Libya	24,000	17. China	24,500	17. China	24,400
18. Indonesia	24,000	18. Indonesia	24,000	18. Libya	23,800	18. Argentina	23,400
19. Norway	24,000	19. Norway	23,500	19. Indonesia	23,500	19. United Arab Emirates	23,250
20. United Arab Emirates	21,600	20. United Arab Emirates	20,500	20. Argentina	22,000	20. Libya	23,000
Total World	2,497,312	Total World	2,574,158	Total World	2,646,522	Total World	2,915,076

See notes and sources at end of table

Section XIII
Table 7b

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1983	Nation	1984	Nation	1985	Nation	1986
1. U.S.S.R.	1,240,000	1. U.S.S.R.	1,400,000	1. U.S.S.R.	1,450,000	1. U.S.S.R.	1,500,000
2. Iran	482,600	2. Iran	480,000	2. Iran	478,600	2. Iran	470,000
3. United States	201,512	3. United States	200,247	3. United States	197,463	3. United States	193,369
4. Saudi Arabia	117,000	4. Saudi Arabia	121,000	4. Qatar	150,000	4. Qatar	148,000
5. Algeria	111,250	5. Algeria	110,180	5. Saudi Arabia	123,270	5. Saudi Arabia	121,000
6. Canada	97,000	6. Canada	90,500	6. Algeria	109,100	6. Algeria	107,080
7. Mexico	75,850	7. Mexico	75,352	7. Canada	92,300	7. Norway	104,000
8. Qatar	62,000	8. Qatar	62,000	8. Norway	89,000	8. Canada	99,700
9. Norway	58,000	9. Norway	58,800	9. Mexico	77,000	9. Mexico	76,954
10. Venezuela	54,079	10. Venezuela	54,546	10. Netherlands	68,482	10. Netherlands	67,070
11. Netherlands	51,920	11. Netherlands	50,050	11. Venezuela	55,367	11. Venezuela	59,067
12. Malaysia	34,000	12. Malaysia	48,000	12. Malaysia	50,000	12. Malaysia	52,700
13. Nigeria	32,400	13. Nigeria	34,800	13. Indonesia	40,000	13. Nigeria	47,000
14. Kuwait	29,900	14. Kuwait	31,000	14. Nigeria	35,600	14. Indonesia	35,600
15. Indonesia	29,600	15. United Arab Emirates	30,820	15. Kuwait	32,500	15. United Kingdom	33,000
16. Iraq	28,800	16. China	30,300	16. United Arab Emirates	31,570	16. Kuwait	32,500
17. United Arab Emirates	28,560	17. Indonesia	30,200	17. China	30,900	17. United Arab Emirates	32,400
18. United Kingdon	25,400	18. Iraq	29,000	18. Iraq	28,800	18. China	30,000
19. Argentina	25,200	19. United Kingdom	25,100	19. United Kingdom	27,800	19. Iraq	29,000
20. Libya	21,500	20. Argentina	24,420	20. Argentina	24,628	20. Argentina	23,588
Total World	3,031,039	Total World	3,202,197	Total World	3,401,488	Total World	3,480,429

See notes and sources at end of table

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1987	Nation	1988	Nation	1989	Nation	1990
1. U.S.S.R.	1,550,000	1. U.S.S.R.	1,450,000	1. U.S.S.R.	1,500,000	1. U.S.S.R.	1,500,000
2. Iran	450,000	2. Iran	489,400	2. Iran	494,400	2. Iran	500,400
3. United States	191,586	3. United Arab Emirates	201,500	3. United Arab Emirates	199,515	3. United Arab Emirates	191,800
4. Qatar	152,000	4. United States	187,211	4. United States	168,024	4. Saudi Arabia	181,347
5. Saudi Arabia	123,990	5. Qatar	156,700	5. Qatar	156,700	5. United States	167,116
6. Algeria	106,000	6. Saudi Arabia	139,900	6. Saudi Arabia	145,848	6. Qatar	163,100
7. United Arab Emirates	103,400	7. Norway	105,940	7. Algeria	104,200	7. Algeria	114,000
8. Norway	103,180	8. Algeria	105,900	8. Venezuela	102,243	8. Venezuela	100,846
9. Canada	99,600	9. Canada	98,000	9. Canada	95,100	9. Iraq	95,000
10. Mexico	76,500	10. Venezuela	95,000	10. Iraq	95,000	10. Canada	94,300
11. Netherlands	70,400	11. Nigeria	84,000	11. Norway	85,500	11. Nigeria	87,400
12. Venezuela	59,000	12. Mexico	76,530	12. Nigeria	85,000	12. Indonesia	87,015
13. Malaysia	49,440	13. Indonesia	73,000	13. Indonesia	83,590	13. Norway	82,160
14. Indonesia	49,440	14. Netherlands	64,100	14. Mexico	74,831	14. Mexico	73,380
15. Nigeria	47,000	15. Malaysia	52,200	15. Netherlands	62,507	15. Netherlands	61,107
16. Kuwait	35,000	16. Kuwait	36,400	16. Malaysia	51,700	16. Malaysia	51,900
17. United Kingdom	33,400	17. China	30,700	17. Kuwait	42,500	17. Kuwait	48,600
18. China	30,000	18. Iraq	26,300	18. China	31,700	18. China	35,300
19. Iraq	28,000	19. Libya	25,700	19. Argentina	26,700	19. Argentina	27,299
20. Argentina	23,000	20. Argentina	23,600	20. Libya	25,700	20. Libya	25,500
Total World	3,632,166	Total World	3,797,511	Total World	3,936,165	Total World	3,991,235

See notes and sources at end of table

Section XIII
Table 7d

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1991
1. U.S.S.R	1,600,000
2. Iran	600,350
3. United Arab Emirates	198,400
4. Saudi Arabia	180,355
5. United States	169,346
6. Qatar	163,200
7. Algeria	114,700
8. Venezuela	105,688
9. Canada	97,589
10. Iraq	95,000
11. Indonesia	91,450
12. Nigeria	87,400
13. Mexico	72,744
14. Netherlands	60,900
15. Norway	60,674
16. Malaysia	56,900
17. Kuwait	48,600
18. Libya	43,000
19. China	35,300
20. Argentina	27,000
Total World	4,208,315

SOURCE: 1975-1980: United States, American Gas Association, Committee on Natural Gas Reserves
1981-1991: United States, U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas
and Natural Gas Liquids Reserves, Annuals.
1975-1978: Canada, Canadian Petroleum Association
1979-1991: Canada, Oil & Gas Journal, Worldwide Report
1975-1991: Rest of the World, The Oil & Gas Journal, Worldwide Report

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	I974(a)(b)	Nation	1975(a)(b)	Nation	1976(a)(b)	Nation	I977(a)(b)
1. United States	21,600.5	1. United States	20,108.7	1. United States	19,952.4	1. United States	20,337.5
2. U.S.S.R.	9,201.3	2. U.S.S.R.	10,205.9	2. U.S.S.R.	11,331.3	2. U.S.S.R.	12,395.2
3. Canada	3,045.5	3. Netherlands	3,208.4	3. Netherlands	3,542.7	3. Canada	3,301.4
4. Netherlands	2,956.7	4. Canada	3,075.7	4. Canada	3,157.2	4. Netherlands	2,932.5
5. United Kingdom	1,230.0	5. China	1,400.0	5. Iran	1,699.6	5. China	1,787.0
6. China	1,200.0	6. United Kingdom	1,208.2	6. China	1,433.7	6. Iran	1,756.1
7. Romania	1,011.5	7. Romania	953.5	7. United Kingdom	1,202.3	7. United Kingdom	1,499.9
8. Iran	787.4	8. Iran	771.1	8. Romania	854.6	8. Romania	1,005.5
9. West Germany	713.2	9. West Germany	639.4	9. Mexico	790.8	9. West Germany	907.7
10. Mexico	560.9	10. Mexico	583.9	10. Nigeria	632.6	10. Mexico	745.3
11. Italy	540.4	11. Italy	514.3	11. Italy	562.1	11. Nigeria	717.4
12. Venezuela	476.0	12. Venezuela	450.3	12. West Germany	544.0	12. Libya	488.6
13. Libya	345.2	13. Libya	382.6	13. Libya	439.2	13. Italy	448.6
14. East Germany	273.1	14. East Germany	280.0	14. Venezuela	396.0	14. Venezuela	392.8
15. France	269.4	15. Argentina	271.6	15. Argentina	280.2	15. Indonesia	351.9
16. Argentina	255.7	16. France	259.8	16. Algeria	256.9	16. Algeria	284.5
17. Saudi Arabia	219.0	17. Poland	210.6	17. France	250.7	17. France	256.8
18. Poland	202.7	18. Algeria	210.0	18. Indonesia	248.6	18. Argentina	250.0
19. Algeria	198.5	19. Saudi Arabia	200.0	19. Australia	209.3	19. Australia	236.7
20. Kuwait	186.9	20. Brunei	186.5	20. Chile	175.8	20. Chile	208.9
Total World	47,171.5	Total World	47,207.3	Total World	50,367.1	Total World	53,883.7

See notes and sources at end of table

Section XIII
Table 8a

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1978(a)(b)	Nation	1979(a)(b)	Nation	1980(a)(b)	Nation	1981(a)(b)
1. United States	19,974.0	1. United States	20,471.3	1. United States	20,378.8	1. United States	20,177.7
2. U.S.S.R.	13,131.6	2. U.S.S.R.	14,367.1	2. U.S.S.R.	15,355.5	2. U.S.S.R.	16,390.0
3. Canada	3,133.1	3. Canada	3,646.5	3. China	3,469.0	3. Netherlands	3,054.0
4. China	2,352.2	4. China	2,832.7	4. Netherlands	2,799.6	4. Canada	2,623.0
5. Iran	1,746.9	5. Netherlands	2,717.8	5. Canada	2,668.3	5. Mexico	1,486.0
6. Netherlands	1,624.5	6. United Kingdom	1,965.7	6. United Kingdom	1,500.0	6. Romania	1,440.0
7. United Kingdom	1,262.4	7. Romania	1,210.5	7. Mexico	1,190.5	7. United Kingdom	1,427.0
8. Romania	1,211.6	8. Mexico	974.9	8. Romania	1,176.4	8. Algeria	1,149.0
9. Mexico	887.5	9. Iran	913.3	9. Indonesia	1,028.4	9. Indonesia	1,075.0
10. West Germany	643.2	10. West Germany	826.3	10. West Germany	738.6	10. Norway	923.0
11. Nigeria	586.6	11. Indonesia	816.3	11. Norway	705.2	11. Libya	674.0
12. Indonesia	565.8	12. Italy	533.6	12. Pakistan	600.0	12. West Germany	636.0
13. Italy	540.8	13. Norway	414.9	13. Italy	524.6	13. Venezuela	602.0
14. Venezuela	401.4	14. Venezuela	406.0	14. Venezuela	518.0	14. Pakistan	600.0
15. Libya	364.0	15. Nigeria	365.6	15. Algeria	517.0	15. Italy	500.0
16. Norway	351.8	16. Chile	306.4	16. Saudi Arabia	310.2	16. China	459.0
17. Algeria	328.7	17. Brunei-Malaysia	302.7	17. Argentina	296.9	17. Saudi Arabia	435.0
18. Brunei-Malaysia	325.7	18. Algeria	301.5	18. Iran	292.0	18. Australia	377.0
19. Chile	320.7	19. Australia	254.1	19. Kuwait	291.3	19. Kuwait	340.0
20. Argentina	254.3	20. Argentina	241.7	20. Brunei	282.0	20. Argentina	330.0
Total World	53,911.1	Total World	57,666.5	Total World	58,747.7	Total World	58,397.7

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1982(a)(b)	Nation	1983(a)(b)	Nation	1984(a)(b)	Nation	1985(a)(b)
1. United States	18,519.7	1. U.S.S.R.	18,903.0	1. U.S.S.R.	20,721.1	1. U.S.S.R.	22,697.9
2. U.S.S.R.	17,685.3	2. United States	16,822.1	2. United States	18,229.6	2. United States	17,198.0
3. Canada	2,546.1	3. Netherlands	2,678.9	3. Netherlands	2,677.5	3. Canada	3,350.6
4. Netherlands	2,521.7	4. Canada	2,414.1	4. Canada	2,651.8	4. Netherlands	2,858.8
5. Mexico	1,549.7	5. Mexico	1,479.5	5. United Kingdom	1,423.3	5. United Kingdom	1,497.1
6. United Kingdom	1,276.1	6. United Kingdom	1,395.3	6. Mexico	1,373.3	6. Algeria	1,320.0
7. Romania	1,150.0	7. Romania	1,200.0	7. Algeria	1,260.0	7. Mexico	1,312.2
8. Norway	861.9	8. Norway	861.4	8. Romania	1,240.0	8. Romania	1,200.0
9. Algeria	828.5	9. Algeria	707.0	9. Norway	922.6	9. Indonesia	1,056.0
10. Saudi Arabia	591.8	10. West Germany	605.2	10. Indonesia	732.0	10. Norway	902.2
11. West Germany	585.3	11. Venezuela	559.2	11. Argentina	653.2	11. Argentina	667.3
12. Indonesia	568.9	12. Argentina	549.6	12. West Germany	648.2	12. Venezuela	609.6
13. Venezuela	527.2	13. Iran	500.2	13. Italy	638.9	13. West Germany	608.1
14. Italy	503.6	14. Indonesia	481.6	14. Venezuela	609.6	14. China	600.0
15. Australia	415.8	15. Italy	450.1	15. Australia	444.4	15. Iran	480.0
16. Argentina	386.2	16. Australia	423.5	16. China	420.0	16. Australia	473.7
17. Iran	381.5	17. Saudi Arabia	381.5	17. France	373.4	17. Italy	448.9
18. China	363.7	18. China	371.0	18. Iran	360.0	18. Pakistan	355.3
19. France	332.6	19. Pakistan	341.4	19. Pakistan	355.2	19. United Arab Emirates	336.0
20. Pakistan	315.3	20. Brunei	316.3	20. Brunei	312.0	20. Brunei	300.0
Total World	55,682.6	Total World	55,307.6	Total World	60,093.9	Total World	62,615.4

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1986(a)(b)	Nation	1987(a)(b)	Nation	1988(a)(b)	Nation	1989(a)(b)
1. U.S.S.R.	24,215.8	1. U.S.S.R.	25,673.8	1. U.S.S.R.	27,192.3	1. U.S.S.R	28,145.0
2. United States	16,791.0	2. United States	17,348.5	2. U.S.	17,841.5	2. United States	18,044.5
3. Canada	3,168.3	3. Canada	3,472.7	3. Canada	3,990.2	3. Canada	4,161.0
4. Netherlands	2,623.3	4. Netherlands	2,731.2	4. Netherlands	2,412.8	4. Netherlands	2,606.3
5. United Kingdom	1,634.0	5. United Kingdom	1,655.3	5. United Kingdom	1,640.5	5. Algeria	2,316.5
6. Mexico	1,252.3	6. Algeria	1,471.6	6. Algeria	1,542.4	6. United Kingdom	1,520.8
7. Algeria	1,238.3	7. Mexico	1,277.4	7. Romania	1,318.8	7. Indonesia	1,345.7
8. Romania	1,210.2	8. Romania	1,267.8	8. Mexico	1,308.5	8. Mexico	1,307.4
9. Indonesia	1,559.9	9. Indonesia	1,234.8	9. Indonesia	1,223.7	9. Romania	1,236.6
10. Norway	906.2	10. Norway	994.1	10. Norway	1,002.9	10. Saudi Arabia	1,079.8
11. Argentina	661.8	11. Saudi Arabia	740.9	11. Saudi Arabia	899.3	11. Norway	1,014.9
12. China	646.0	12. Italy	697.2	12. Argentina	757.4	12. Argentina	846.2
13. Venezuela	615.1	13. Venezuela	680.3	13. Venezuela	722.9	13. Iran	793.9
14. West Germany	545.4	14. Iran	670.7	14. China	715.3	14. United Arab Emirates	790.7
15. Italy	527.3	15. Argentina	659.6	15. Italy	703.7	15. Venezuela	740.1
16. Australia	524.1	16. West Germany	658.9	16. United Arab Emirates	600.0	16. Italy	707.4
17. Iran	489.3	17. United Arab Emirates	575.0	17. West Germany	551.7	17. Australia	629.7
18. Pakistan	390.3	18. Australia	532.8	18. Australia	544.4	18. West Germany	567.2
19. United Arab Emirates	362.1	19. Malaysia	460.9	19. Malaysia	464.8	19. Malaysia	526.0
20 Saudi Arabia	328.7	20. Pakistan	419.8	20. Pakistan	441.7	20. China	515.2
Total World	63,786.2	Total World	68,409.5	Total World	71,317.0	Total World	74,352.3

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1990(a)(b)
1. U.S.S.R	28,800.0
2. United States	18,561.6
3. Canada	4,267.0
4. Netherlands	2,618.1
5. United Kingdom	1,700.7
6. Algeria	1,588.0
7. Saudi Arabia	1,401.2
8. Indonesia	1,383.2
9. Mexico	1,322.7
10. Romania	1,181.1
11. United Arab Emirates	1,092.1
12. Norway	896.5
13. Venezuela	862.0
14. Iran	854.4
15. Argentina	816.1
16. Australia	749.9
17. Italy	736.8
18. Malaysia	569.7
19. West Germany	565.7
20. China	517.7
Total World	75,607.8

(a) Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.
(b) United States is reported marketed production; all others may include some gross production.

SOURCE: 1974-1975: U.S. Bureau of Mines, World Natural Gas, May 27, 1977
1976-1990: U.S. Energy Information Administration, United States only

Section XIII
Table 9

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	0	0	0	2	1	4	41	87	282	42	190	323	172
Alaska	0	0	0	0	0	0	0	0	0	0	0	50	133
Arizona	0	0	0	0	0	0	0	0	15	21	0	0	0
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890	40,674
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582	485,655
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464	99,899
Florida	8	27	39	8	10	15	34	35	36	35	34	35	34
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983	13,739
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378	484
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816	604,410
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248	73,504
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587	2670271
Maryland	0	0	0	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266	4,373
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243	18,916
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143	162,095
Missouri	38	27	24	21	14	16	15	16	15	12	12	0	0
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989	30,743
Nebraska	0	0	0	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405	13,128
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446	739,660
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,598	3,637	4,098	2,869	2,808	2,915
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325	17,915
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786	34,664
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504	811,508
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869	99,366
South Dakota	6	2	1	0	7	6	5	7	0	0	0	0	0
Tennessee	80	127	83	132	132	107	89	89	39	45	38	54	52
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5,156,215	5,178,173	5,718,993
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247	38,921
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521	2,280
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581	204,633
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682	156,978
Total	4,582,173	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,396,916	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298	12,046,115

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	57	56	128	177	165	203	252	248	230	180	627	355	3,644
Alaska	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576	121,618	125,596
Arizona	0	0	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101	868	442
Arkansas	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351	172,154	166,522
California	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689	649,117	612,629	487,278
Colorado	107,404	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804	108,537	116,949
Florida	30	29	29	35	40	107	212	123	108	50	0	903	15,521
Illinois	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850	498	1,194
Indiana	342	382	284	286	199	239	215	198	234	171	153	537	355
Kansas	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955	885,144	889,268
Kentucky	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892	72,723	63,648
Louisiana	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276	8,081,907	7,972,678
Maryland	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978	813	214	244
Michigan	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851	25,662	34,221
Mississippi	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031	118,805	103,989
Missouri	75	90	92	100	107	84	0	121	14	126	87	22	9
Montana	33,418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705	32,720	33,474
Nebraska	15,258	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991	3,496	3,478
New Mexico	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980	1,167,577	1,216,061
New York	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358	2,202	3,679
North Dakota	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889	33,864	32,472
Ohio	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113	79,903	89,995
Oklahoma	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943	1,684,260	1,806,887
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841	76,451	73,958
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	63	71	75	90	77	85	0	58	48	57	64	89	25
Texas	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716	8,550,705	8,657,840
Utah	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781	42,418	39,474
Virginia	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805	2,619	2,787
West Virginia	208,757	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452	234,027	214,951
Wyoming	181,610	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517	338,520	380,105	375,059
Total	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240	21,920,642	22,493,012	22,531,698

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	11,271	27,865	37,814	41,427	57,227	85,599	85,815	105,527	119,334	75,003	90,801	101,821	107,342
Alaska	131,007	128,935	160,270	166,072	187,889	203,088	220,754	230,588	242,564	264,364	276,691	289,129	321,346
Arizona	125	224	208	262	240	286	247	214	187	99	132	45	85
Arkansas	157,529	123,975	116,237	109,533	104,096	106,792	109,452	111,808	92,986	124,611	127,561	135,161	155,099
California	449,369	365,354	318,308	354,334	311,462	311,084	248,206	309,783	380,730	383,977	415,324	476,333	491,283
Colorado	137,725	144,629	171,629	183,972	188,792	183,693	191,239	190,814	199,146	209,892	163,545	173,257	178,233
Florida	33,857	38,137	44,383	43,165	48,171	51,595	50,190	45,744	35,938	22,515	21,056	12,585	10,545
Illinois	1,638	1,436	1,440	1,556	1,003	1,159	1,585	1,574	1,295	1,162	1,030	1,530	1,324
Indiana	276	176	346	192	183	163	350	463	330	233	135	394	367
Kansas	893,118	886,782	843,625	829,170	781,289	854,484	797,762	735,035	640,114	429,597	434,736	465,979	512,872
Kentucky	62,396	71,876	60,511	66,137	60,902	70,044	59,520	57,180	61,312	51,924	46,720	61,518	73,126
Louisiana	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217	6,939,924	6,780,184	6,171,627	5,332,113	5,825,055	5,013,702
Maryland	298	133	93	75	82	88	28	68	56	36	31	60	39
Michigan	44,579	69,133	102,113	119,262	129,954	148,047	159,731	158,302	152,593	153,051	138,910	144,537	131,855
Mississippi	99,706	78,787	74,345	70,762	82,995	106,579	144,077	185,469	211,371	167,231	151,204	157,911	144,172
Missouri	33	33	30	29	20	0	0	0	0	0	0	4	4
Montana	56,175	54,873	40,734	42,563	46,819	46,522	53,888	51,867	56,565	56,517	51,967	51,474	52,494
Nebraska	3,836	2,538	2,565	2,511	2,789	2,882	3,208	2,550	2,519	2,280	2,091	2,300	1,944
New Mexico	1,218,749	1,244,779	1,217,430	1,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,113	991,178	895,279	957,366	905,272
New York	4,539	4,990	7,628	9,235	10,682	13,900	15,500	15,643	16,074	15,877	17,836	25,200	31,561
North Dakota	27,703	31,206	24,786	31,470	29,173	30,499	18,468	42,346	42,573	53,818	69,319	70,496	72,633
Ohio	93,610	92,055	84,960	88,891	99,327	114,098	123,431	138,856	141,134	138,391	151,300	186,480	182,245
Oklahoma	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412	1,730,061	1,985,869	1,936,341
Oregon	0	0	0	0	0	0	2	5	5	3	3	2,790	4,080
Pennsylvania	78,514	82,637	84,676	89,386	91,717	97,763	96,313	97,439	122,454	121,111	118,372	166,342	150,234
South Dakota	0	0	0	0	0	0	914	1,193	1,155	2,331	1,846	1,947	2,558
Tennessee	20	17	27	47	263	468	941	1,241	1,719	2,976	3,950	5,022	4,686
Texas	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623	7,251,879	7,050,207	6,468,817	5,938,561	6,185,021	6,052,663
Utah	42,715	50,522	55,354	57,416	60,696	58,416	58,605	87,766	91,191	94,255	63,158	74,698	83,405
Virginia	5,101	7,096	6,723	6,937	8,220	8,492	8,544	7,812	8,903	6,880	4,346	8,901	15,041
West Virginia	208,676	202,306	154,484	153,322	152,767	148,564	150,505	156,551	161,251	150,850	130,078	143,730	144,883
Wyoming	357,731	326,657	316,123	328,768	330,180	357,267	414,416	409,541	410,499	424,657	443,988	516,683	416,565
Total	22,647,549	21,600,522	20,108,661	19,952,438	20,025,463	19,974,033	20,471,260	20,378,787	20,177,701	18,519,675	16,822,144	18,229,638	17,197,999

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1986	1987	1988	1989	1990
Alabama	107,184	117,241	129,524	128,411	135,276
Alaska	304,841	359,837	378,638	393,729	402,907
Arizona	63	60	56	1,360	2,125
Arkansas	131,075	141,151	166,573	168,300	174,956
California	462,218	424,621	399,663	362,860	362,748
Colorado	163,684	164,557	191,544	216,737	242,997
Florida	8,833	8,281	7,484	7,534	6,483
Illinois	1,887	1,371	1,338	1,477	677
Indiana	365	217	412	416	399
Kansas	465,695	457,050	576,274	587,230	573,603
Kentucky	80,195	70,125	73,629	72,417	75,333
Louisiana	4,895,394	5,122,509	5,180,267	5,078,125	5,241,989
Maryland	20	44	29	34	22
Michigan	127,287	146,996	146,145	155,988	139,955
Mississippi	140,833	139,727	124,053	102,645	94,616
Missouri	4	4	4	4	7
Montana	46,592	46,456	51,654	51,307	50,429
Nebraska	1,403	1,261	910	878	793
New Mexico	702,614	823,773	791,819	854,615	965,104
New York	29,964	25,676	23,455	20,433	25,023
North Dakota	55,098	62,258	57,747	51,174	52,169
Ohio	182,072	166,593	166,690	159,730	154,619
Oklahoma	1,917,493	2,004,797	2,106,632	2,185,204	2,258,471
Oregon	4,600	3,800	4,000	2,500	2,815
Pennsylvania	159,889	163,318	167,089	191,774	177,609
South Dakota	2,231	3,431	3,920	4,369	881
Tennessee	3,464	2,707	2,100	1,900	2,067
Texas	6,151,775	6,126,315	6,286,029	6,241,425	6,343,146
Utah	90,013	87,158	101,372	120,089	145,875
Virginia	15,427	19,223	18,424	17,935	14,774
West Virginia	135,431	160,000	174,942	198,200	178,000
Wyoming	403,266	497,980	509,058	665,699	735,728
Total	16,790,910	17,348,537	17,841,474	18,044,499	18,561,596

(a) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

SOURCE: 1947-1975: U.S. Bureau of Mines, Natural Gas Annuals
1976-1990: U.S Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	50,713	61,113	71,072	92,466	111,030	125,874	136,825	139,551	151,325	160,261	165,772	172,406	178,595
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	133
Arizona	27,768	34,983	44,489	53,419	62,046	63,111	71,210	75,568	88,983	105,860	105,536	105,034	112,722
Arkansas	102,779	112,675	113,922	135,609	155,524	165,603	176,489	192,378	197,374	196,297	201,306	202,361	218,528
California	548,382	617,615	619,323	683,924	787,848	792,520	862,243	933,934	1,020,395	1,021,002	1,091,236	1,078,855	1,180,331
Colorado	49,027	60,585	73,664	88,692	102,769	101,835	115,922	126,048	143,018	145,640	176,936	165,099	196,057
Connecticut	-	-	-	-	-	1,039	5,833	11,415	14,187	18,109	20,328	27,884	25,875
Delaware	-	-	708	1,022	1,679	2,276	1,972	2,980	4,280	5,824	6,014	8,301	9,459
Dist. of Col.	8,474	9,361	9,305	10,694	11,904	12,782	13,134	14,261	15,042	15,833	15,701	17,594	17,123
Florida	7,891	8,973	10,185	12,348	13,044	16,001	19,577	23,159	26,402	35,322	38,871	44,174	91,490
Georgia	41,368	47,552	58,824	67,894	94,596	108,329	122,742	132,069	133,044	148,567	154,778	164,114	180,342
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	765	10,733	15,903	19,641
Illinois	132,153	168,796	202,546	235,211	250,812	344,705	350,980	391,408	398,718	417,443	422,840	452,006	518,111
Indiana	42,528	50,774	55,263	58,620	69,177	96,124	103,444	116,308	126,897	140,135	145,179	154,583	171,158
Iowa	40,948	50,350	57,620	66,233	79,640	94,951	106,755	119,876	138,661	147,892	154,964	159,982	182,827
Kansas	191,952	199,893	206,593	242,603	278,892	279,632	283,604	293,784	309,028	324,335	343,833	362,280	380,241
Kentucky	36,938	41,357	45,504	61,323	74,386	87,006	104,781	110,039	117,496	126,580	132,436	136,990	147,993
Louisiana	375,206	426,837	450,712	475,500	549,305	599,312	594,656	636,704	774,320	839,393	840,331	931,203	893,369
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Maryland	3,402	4,280	4,821	13,813	22,286	26,468	29,470	35,010	39,889	47,553	51,177	57,328	60,674
Massachusetts	-	-	-	-	1,783	11,386	17,683	35,486	43,932	50,691	56,626	67,602	72,994
Michigan	80,571	75,978	84,315	127,180	154,283	163,991	178,307	188,922	207,005	243,465	272,353	298,104	332,756
Minnesota	43,198	52,376	59,040	67,861	84,205	97,591	104,508	115,140	123,734	136,831	147,732	149,042	161,390
Mississippi	52,461	65,245	60,987	76,918	97,786	119,638	118,617	136,797	138,186	145,353	148,279	157,169	183,158
Missouri	78,101	90,883	99,667	140,384	156,922	168,992	173,674	188,349	199,272	219,424	223,528	241,239	255,095
Montana	30,919	32,919	34,361	38,544	37,481	40,771	39,934	40,624	47,491	47,690	52,200	51,825	52,183
Nebraska	39,699	47,647	51,911	61,742	72,386	78,544	83,384	93,189	102,177	109,265	116,326	114,661	132,651
Nevada	-	-	-	-	-	-	-	982	2,484	6,676	8,666	8,826	10,450
New Hampshire	-	-	-	-	3	316	857	1,065	1,206	1,445	1,787	2,421	2,480
New Jersey	-	-	3,172	3,209	30,887	40,409	58,685	65,718	74,601	90,092	100,483	119,946	132,984
New Mexico	102,766	110,132	127,423	147,509	174,808	194,748	200,039	177,221	215,281	229,821	243,800	251,518	272,922
New York	41,572	44,200	51,064	65,157	144,920	180,747	197,878	225,844	243,513	268,408	299,153	343,326	379,928
North Carolina	-	-	-	-	1,631	2,945	6,172	9,436	12,644	16,579	19,533	23,519	32,685
North Dakota	2,608	2,712	2,686	3,279	3,408	3,342	3,559	4,820	9,320	10,428	13,753	15,639	16,981
Ohio	221,571	236,137	246,212	324,594	375,820	393,250	420,809	442,523	500,865	561,557	583,753	618,022	670,618
Oklahoma	254,522	277,955	258,579	286,793	307,887	319,908	333,972	327,936	334,057	358,930	387,277	342,080	379,178
Oregon	-	-	-	-	-	-	-	-	-	4,473	18,227	22,752	27,498
Pennsylvania	175,906	191,631	209,749	263,199	311,937	324,187	335,457	353,185	390,280	431,325	445,813	465,732	502,066
Rhode Island	-	-	-	-	-	-	670	4,423	5,375	6,242	8,139	9,940	11,011
South Carolina	-	-	-	-	853	2,896	8,772	16,573	23,043	44,467	39,741	39,678	54,363
South Dakota	8,016	8,540	8,212	10,001	11,447	11,701	13,688	15,564	16,107	18,002	18,251	19,535	23,584
Tennessee	33,986	37,766	41,609	67,813	88,078	99,817	106,130	114,869	118,052	126,815	130,601	142,860	149,462
Texas	1,444,422	1,605,955	1,658,379	1,824,553	2,130,377	2,175,100	2,194,172	2,198,175	2,236,540	2,323,847	2,455,528	2,555,541	2,865,595
Utah	20,919	21,627	24,338	26,368	29,014	30,929	34,592	41,073	48,903	54,669	57,004	55,706	61,401
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Virginia	3,055	3,877	4,324	7,639	14,853	18,630	27,716	35,604	38,884	43,362	48,527	56,052	59,842
Washington	-	-	-	-	-	-	-	-	-	5,224	40,108	53,063	58,650
West Virginia	108,105	112,702	111,802	132,273	139,608	146,153	148,017	138,846	158,006	161,246	159,520	164,347	191,548
Wisconsin	267	323	1,696	15,380	28,382	33,632	36,339	39,287	40,621	48,188	59,592	67,596	82,377
Wyoming	26,351	31,400	31,407	36,637	38,865	36,287	36,070	36,709	39,705	45,552	45,504	46,810	59,119
U.S. Total(c)	4,426,544	4,945,149	5,195,484	6,026,404	7,102,562	7,613,478	7,979,338	8,402,852	9,070,343	9,706,878	10,279,775	10,760,648	11,819,638

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	184,118	184,909	194,369	205,763	222,047	229,152	233,098	254,176	287,212	300,892	298,497	285,973	278,467
Alaska	229	557	2,137	4,214	5,781	6,922	10,784	11,889	17,548	42,726	63,726	67,706	74,658
Arizona	135,494	153,674	157,892	157,494	162,570	154,489	162,320	158,766	176,547	195,476	192,996	213,313	227,909
Arkansas	216,516	209,420	224,744	251,129	273,671	281,625	295,078	295,460	321,569	349,990	381,951	333,644	316,375
California	1,311,253	1,405,882	1,476,322	1,554,126	1,737,341	1,757,292	1,884,878	1,911,132	2,046,080	2,048,534	2,126,466	2,149,264	2,185,543
Colorado	207,646	212,611	204,940	207,663	236,325	236,745	233,896	231,508	256,820	272,437	282,328	289,369	309,703
Connecticut	28,453	30,361	32,227	34,809	37,502	40,822	47,695	49,780	53,202	57,485	60,574	61,434	64,008
Delaware	9,035	9,380	14,492	16,378	17,091	17,969	19,045	21,063	24,059	25,863	26,421	26,452	24,088
Dist. of Col.	18,142	18,518	19,338	19,359	20,633	21,210	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Florida	137,875	143,656	157,735	177,496	185,249	188,389	212,278	225,531	273,524	311,885	336,816	336,721	298,977
Georgia	182,087	179,957	192,638	187,600	206,691	211,321	233,291	254,334	283,115	311,543	332,526	342,579	331,143
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	22,006	23,969	25,806	26,635	30,825	33,889	36,104	34,283	39,479	41,436	46,570	50,096	56,630
Illinois	536,549	574,346	620,309	658,432	731,921	772,092	854,149	948,353	994,404	1,085,392	1,173,878	1,229,277	1,207,289
Indiana	212,851	239,932	272,309	297,897	333,718	357,882	399,905	434,632	454,013	530,981	545,368	566,996	576,948
Iowa	187,138	204,663	213,552	219,005	243,634	247,513	239,478	272,850	297,498	318,341	348,662	344,639	344,516
Kansas	372,302	364,957	380,055	387,880	433,429	464,337	507,704	450,963	496,550	547,227	575,694	606,989	628,109
Kentucky	159,710	161,912	168,138	175,928	185,780	182,828	160,392	192,464	196,807	234,882	248,048	244,360	255,208
Louisiana	947,938	1,036,887	1,007,041	1,070,471	1,139,186	1,155,260	1,258,776	1,394,376	1,521,492	1,762,955	1,840,840	1,883,924	1,939,762
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Maryland	64,923	68,390	76,551	81,774	86,813	93,957	117,208	139,853	149,125	168,944	182,135	188,371	204,922
Massachusetts	77,886	81,768	89,015	98,447	106,699	114,227	116,198	128,217	132,325	136,988	147,307	156,451	160,280
Michigan	368,531	407,732	443,677	463,667	500,628	558,240	619,863	686,095	700,538	776,573	809,124	850,562	864,770
Minnesota	179,827	192,584	214,130	219,047	236,976	248,741	264,488	283,086	311,898	325,687	342,322	351,442	351,408
Mississippi	188,864	190,930	199,733	227,184	252,023	249,845	286,390	282,160	311,891	326,165	360,382	378,321	377,986
Missouri	261,372	274,487	289,482	303,075	325,194	341,144	351,768	360,703	365,546	398,697	429,526	429,105	425,215
Montana	54,569	57,781	63,298	67,337	67,652	70,895	73,829	65,038	62,898	78,283	87,791	88,271	84,322
Nebraska	139,028	143,169	146,043	149,014	164,224	168,032	198,592	188,661	203,345	210,033	222,335	223,674	224,562
Nevada	12,447	15,864	17,528	19,292	23,928	27,679	34,218	35,035	37,029	44,140	52,558	66,511	69,522
New Hampshire	2,852	3,018	3,315	3,596	3,813	4,084	5,567	6,578	6,630	9,196	10,691	12,088	13,267
New Jersey	139,258	153,806	174,210	188,249	200,109	209,757	227,271	251,482	268,495	304,835	322,853	326,768	321,288
New Mexico	266,409	288,455	292,495	275,969	257,173	263,798	261,918	255,590	260,774	251,905	270,103	269,368	287,993
New York	419,460	435,417	474,384	506,942	513,828	544,414	631,808	589,120	639,845	683,688	710,885	716,550	692,730
North Carolina	45,442	50,523	56,373	62,296	68,533	75,745	86,753	97,981	114,809	136,651	151,227	160,567	163,897
North Dakota	17,274	19,625	22,196	23,765	26,232	30,318	40,836	31,858	33,053	32,682	32,717	33,577	36,473
Ohio	698,569	719,674	756,398	797,318	824,111	879,639	944,767	962,821	987,841	1,031,963	1,052,933	1,087,126	1,147,804
Oklahoma	383,042	378,096	485,726	588,245	598,631	524,404	490,032	449,378	496,465	546,191	597,169	611,582	629,757
Oregon	30,861	33,827	37,865	43,350	53,984	56,065	65,093	69,877	79,226	87,854	95,284	100,897	110,360
Pennsylvania	520,788	529,716	550,080	585,426	607,277	629,485	677,111	678,478	717,909	765,941	772,388	802,113	828,961
Rhode Island	11,839	12,780	13,794	14,725	15,465	16,349	16,684	18,493	20,704	22,555	25,093	25,662	22,494
South Carolina	58,532	60,928	70,645	75,099	78,716	86,865	96,437	100,539	127,514	140,826	159,830	156,263	144,120
South Dakota	24,533	25,820	27,413	25,159	27,639	26,974	28,256	27,735	28,815	33,826	36,319	31,832	34,077
Tennessee	155,623	160,667	167,737	169,418	181,476	201,499	226,025	232,212	234,286	247,857	256,148	265,011	277,275
Texas	2,981,167	3,030,914	3,209,968	3,313,837	3,377,093	3,482,821	3,709,715	3,485,246	3,696,396	3,877,376	4,093,357	4,364,728	4,412,636
Utah	75,650	81,879	92,890	103,628	119,625	114,601	106,474	105,052	109,866	119,879	121,937	121,403	124,093
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Virginia	66,181	70,579	77,254	83,011	89,072	95,700	121,702	115,887	121,928	128,748	136,523	144,014	155,658
Washington	64,934	70,343	81,431	86,834	105,789	108,108	116,879	127,230	139,421	144,521	149,992	156,663	170,448
West Virginia	179,969	192,221	188,602	190,264	182,515	179,084	183,109	151,078	183,003	169,841	181,278	178,380	199,141
Wisconsin	90,620	113,679	136,516	152,354	170,202	200,484	224,675	248,033	271,765	316,279	337,822	348,132	320,826
Wyoming	59,635	61,451	67,336	69,879	67,559	70,298	79,174	73,284	78,801	100,071	109,996	115,286	125,834
U.S. Total(c)	12,509,427	13,081,714	13,890,129	14,640,480	15,536,373	16,033,189	17,191,711	17,388,360	18,632,062	20,056,240	21,139,386	21,793,454	22,101,452

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981 (a)	1982	1983	1984	1985
Alabama	272,068	274,761	264,088	225,979	241,237	237,258	283,435	269,240	271,280	240,957	221,583	231,997	219,455
Alaska	63,073	62,874	84,751	90,121	116,278	145,025	157,236	153,345	121,727	237,881	239,200	257,525	212,765
Arizona	214,323	192,446	156,222	171,275	167,092	175,041	172,738	165,850	182,533	135,031	115,233	121,149	130,776
Arkansas	327,803	290,393	258,220	248,941	229,558	220,699	250,747	273,720	264,787	226,941	206,966	210,021	195,633
California	2,045,627	1,834,413	1,832,849	1,756,611	1,772,041	1,563,172	1,810,381	1,807,731	1,858,178	1,682,718	1,535,031	1,669,705	1,846,078
Colorado	324,007	313,056	307,772	302,284	282,215	267,838	292,272	256,363	211,780	224,991	213,812	229,647	218,942
Connecticut	62,609	66,343	64,011	65,855	64,068	65,191	67,957	72,583	76,829	78,246	74,427	81,139	78,215
Delaware	22,949	20,365	18,603	19,182	15,787	20,626	24,981	29,797	30,643	27,833	34,884	42,962	38,493
Dist. of Col.	(b)	(b)	(b)	(b)	(b)	(b)	(b)	27,868	29,023	29,280	29,340	29,449	28,902
Florida	311,498	289,551	280,095	289,017	302,344	318,344	344,177	316,588	337,557	324,807	306,307	303,309	289,706
Georgia	348,089	330,339	326,559	281,320	264,665	278,272	312,299	315,201	316,613	294,651	295,531	307,323	281,805
Hawaii	-	-	-	-	-	-	-	3,131	2,899	2,804	2,669	2,375	2,483
Idaho	56,045	53,057	60,451	47,156	45,537	44,210	54,237	49,047	44,960	39,971	35,179	38,604	39,194
Illinois	1,150,266	1,149,394	1,095,115	1,175,235	1,167,099	1,174,934	1,142,732	1,089,720	1,061,957	994,179	938,340	1,032,779	962,039
Indiana	542,300	531,872	477,341	425,221	398,268	440,955	504,185	489,254	496,349	467,842	426,770	452,284	432,958
Iowa	364,640	367,595	345,798	311,425	280,246	238,229	291,521	269,581	253,231	237,089	220,517	234,846	225,903
Kansas	604,460	587,013	498,727	515,197	506,910	519,346	584,236	488,338	428,130	400,920	346,204	363,671	355,467
Kentucky	245,472	228,003	207,539	245,967	219,521	212,913	218,689	202,284	199,445	188,536	174,306	189,255	172,510
Louisiana	2,009,859	2,008,364	1,788,588	2,043,705	2,190,848	2,249,172	1,978,382	1,794,007	1,781,716	1,556,052	1,412,983	1,594,346	1,386,365
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	2,268	2,326	2,691	2,424	2,449	2,531
Maryland	201,961	199,331	165,932	176,272	158,838	161,695	201,584	160,244	175,289	157,990	145,628	158,989	150,838
Massachusetts	155,547	155,268	153,967	156,247	160,343	160,503	156,459	182,587	184,575	195,107	191,815	208,758	218,884
Michigan	920,351	936,043	884,184	888,035	741,295	789,594	875,726	865,137	800,873	748,141	696,455	718,103	709,232
Minnesota	360,811	351,644	331,186	320,156	293,381	313,229	334,202	285,846	266,282	262,039	240,777	255,638	257,480
Mississippi	313,992	276,199	230,053	199,122	197,689	203,719	254,366	263,530	242,987	269,131	237,859	268,560	226,663
Missouri	426,807	409,884	369,620	380,258	366,970	358,905	347,257	318,450	283,514	279,449	258,560	264,954	259,900
Montana	90,230	79,909	79,520	74,371	70,956	72,649	69,805	60,724	52,452	52,208	46,249	46,864	47,265
Nebraska	229,632	222,807	218,834	198,634	188,804	163,051	170,013	163,079	138,322	138,238	129,290	134,465	126,135
Nevada	73,072	63,438	61,251	66,797	71,052	64,506	84,433	58,454	73,182	46,627	41,926	42,256	39,200
New Hampshire	13,881	14,697	13,534	13,545	13,609	14,039	14,881	9,474	10,220	10,078	9,655	10,531	10,629
New Jersey	301,566	275,050	244,102	321,535	247,120	228,843	260,579	339,825	390,121	375,660	405,387	418,220	379,230
New Mexico	256,811	257,436	240,260	278,976	229,813	213,698	211,182	221,793	196,212	204,163	178,698	161,850	151,128
New York	682,547	627,493	576,883	595,933	561,698	569,702	623,891	737,443	760,463	775,268	720,398	790,011	762,621
North Carolina	160,871	140,217	114,822	101,175	72,527	81,989	130,884	153,316	152,496	142,129	136,579	143,854	133,825
North Dakota	32,428	35,459	36,826	41,177	37,650	39,067	29,236	22,848	34,445	28,370	26,126	30,153	28,096
Ohio	1,104,156	1,086,651	956,876	1,005,927	847,497	929,593	898,029	896,983	870,341	813,519	747,268	785,297	733,116
Oklahoma	611,738	660,010	668,819	760,110	766,986	770,249	824,908	722,318	670,971	676,762	628,950	652,953	587,407
Oregon	107,961	98,051	109,898	92,500	72,521	86,140	93,707	78,703	75,562	70,824	67,045	78,643	83,002
Pennsylvania	783,297	715,548	653,742	713,518	668,337	673,770	740,818	775,715	784,691	694,639	643,952	676,721	625,667
Rhode Island	20,559	23,781	23,129	20,697	25,631	23,042	27,219	27,630	29,202	27,874	29,044	31,689	29,874
South Carolina	153,147	131,991	122,949	148,989	138,585	117,573	119,319	142,228	141,924	98,100	101,632	108,429	97,469
South Dakota	31,221	32,076	32,534	39,207	36,097	35,423	25,724	24,078	22,056	25,089	23,326	24,592	25,202
Tennessee	293,620	260,171	217,328	212,326	202,135	184,048	226,477	229,661	223,529	207,161	194,610	206,353	190,266
Texas	4,621,378	4,463,488	3,944,377	3,975,307	4,143,023	4,211,432	4,001,355	4,091,099	3,926,687	3,394,404	3,241,515	3,432,624	3,385,715
Utah	123,106	121,015	124,160	146,205	106,315	118,513	126,047	115,092	102,239	117,706	110,185	115,578	115,117
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	3,991	4,383	4,370	4,359	4,868	4,998
Virginia	152,848	143,650	121,320	123,509	118,020	134,144	134,088	158,479	151,737	150,964	142,944	143,582	139,458
Washington	197,861	182,723	164,334	148,781	142,657	127,280	158,515	128,770	124,942	108,653	107,193	126,287	134,599
West Virginia	186,316	182,370	158,435	150,723	144,535	151,839	148,538	143,047	148,527	130,029	115,813	124,368	117,168
Wisconsin	367,961	381,148	364,801	315,154	349,160	370,726	367,517	351,857	324,611	312,007	299,099	305,076	308,365
Wyoming	108,599	95,746	87,188	86,819	83,623	87,292	93,797	68,975	69,056	90,923	80,871	85,423	82,172
U.S. Total(c)	22,049,363	21,223,133	19,537,593	19,946,496	19,520,581	19,627,478	20,240,761	19,877,293	19,403,858	18,001,055	16,834,914	17,950,524	17,280,943

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1986	1987	1988	1989	1990
Alabama	202,923	207,757	236,356	244,810	243,803
Alaska	206,452	249,269	287,648	321,529	342,585
Arizona	101,249	108,976	124,366	145,642	124,773
Arkansas	199,197	169,626	216,836	249,728	232,374
California	1,531,323	1,934,909	1,804,452	1,837,850	1,864,057
Colorado	197,847	210,046	227,584	242,931	239,112
Connecticut	78,903	91,842	88,130	95,052	97,634
Delaware	33,009	36,703	29,258	34,924	39,127
Dist. of Col.	29,586	30,988	32,719	33,422	28,864
Florida	288,541	300,339	293,433	323,591	327,023
Georgia	279,082	303,420	323,030	317,031	311,015
Hawaii	2,463	2,610	2,614	2,694	2,788
Idaho	34,721	37,147	40,736	45,640	45,512
Illinois	924,280	873,436	965,388	992,035	939,502
Indiana	395,181	412,588	456,812	461,993	450,954
Iowa	206,902	200,877	239,127	225,739	218,201
Kansas	312,680	325,866	352,924	340,878	352,780
Kentucky	167,173	171,910	184,078	188,518	184,333
Louisiana	1,438,563	1,500,679	1,445,703	1,515,107	1,571,003
Maine	2,473	2,641	3,197	3,678	4,354
Maryland	152,542	168,553	172,901	189,706	172,267
Massachusetts	186,350	226,820	210,975	249,459	258,214
Michigan	671,323	657,396	749,225	774,438	816,400
Minnesota	244,772	231,750	283,840	299,780	290,587
Mississippi	214,824	208,582	212,779	227,625	253,690
Missouri	241,660	231,941	252,923	261,268	238,709
Montana	41,148	38,786	41,825	45,756	43,169
Nebraska	104,732	102,719	121,979	120,235	111,063
Nevada	33,790	41,333	48,226	63,667	64,876
New Hampshire	10,291	11,970	13,009	13,945	14,274
New Jersey	353,465	421,400	414,279	456,474	427,842
New Mexico	134,198	153,247	173,450	195,736	238,531
New York	728,802	756,559	790,218	845,853	863,090
North Carolina	135,819	148,653	151,990	161,788	161,208
North Dakota	25,471	24,828	28,614	30,152	32,490
Ohio	716,778	714,929	805,309	814,123	746,719
Oklahoma	554,125	596,092	588,796	595,196	604,423
Oregon	70,973	80,249	87,163	108,028	101,829
Pennsylvania	609,953	626,770	668,661	681,909	656,240
Rhode Island	26,354	35,930	30,787	33,938	31,430
South Carolina	98,549	105,661	112,309	116,818	130,453
South Dakota	23,292	21,087	24,227	25,504	25,056
Tennessee	188,000	200,571	214,244	221,444	219,831
Texas	3,185,509	3,304,492	3,531,008	3,625,129	3,603,076
Utah	105,175	98,987	108,954	113,536	116,648
Vermont	5,019	5,181	5,551	6,151	6,766
Virginia	141,024	142,096	163,529	173,725	180,868
Washington	118,360	131,746	146,778	162,779	162,735
West Virginia	112,573	115,091	122,140	130,084	120,453
Wisconsin	278,848	280,184	317,146	330,792	309,080
Wyoming	75,029	81,704	82,363	82,362	92,190
U.S. Total(c)	16,221,296	17,136,938	18,029,588	18,780,192	18,714,003

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

(a) Included with New Hampshire.
(b) Included with Maryland.
(c) Total may not add due to independent rounding.
Note: Consumption includes volumes of natural gas which is distributed as a component of mixed gas.

SOURCE: 1947-1966: U.S. Bureau of Mines, Mineral Yearbooks--Fuels
1967-1990: U.S. Energy Information Administration, Natural Gas Annual

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	0.5	0.7	0.7	2.5	3.1	8.3	8.9	8.2	9.5	17.8	16.4	17.7	15.8	14.9
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	57.7	107.1
Arkansas	885.3	896.9	869.4	902.7	926.3	979.2	1,204.7	1,159.1	1,158.0	1,165.2	1,276.1	1,380.8	1,415.1	1,451.8
California	10,109.2	10,137.2	9,937.4	9,707.4	9,430.9	9,289.3	9,109.6	8,977.6	8,844.7	8,703.7	8,904.3	8,917.8	8,546.8	8,795.9
Colorado	330.1	1,341.9	1,220.4	1,109.4	1,132.3	1,157.9	1,854.2	1,922.4	2,241.3	2,409.6	2,367.8	2,336.5	2,482.6	2,031.7
Florida	0.7	1.2	2.4	2.2	2.3	3.0	2.5	2.0	3.2	2.7	2.2	2.8	2.4	1.8
Illinois	219.9	226.6	231.9	228.6	225.9	210.5	230.0	252.4	232.3	218.5	165.5	169.6	174.2	172.2
Indiana	12.9	21.5	25.1	31.0	30.6	35.5	35.6	35.9	32.9	33.6	30.8	30.4	34.9	33.9
Kansas	14,477.9	14,329.6	14,013.0	13,715.9	13,384.4	14,116.5	15,701.9	15,672.7	16,204.6	17,470.9	19,191.2	20,124.0	19,872.9	19,513.7
Kentucky	1,372.0	1,370.7	1,342.1	1,323.4	1,318.4	1,306.4	1,294.5	1,279.6	1,255.4	1,238.8	1,218.4	1,208.7	1,153.8	1,137.6
Louisiana	23,353.7	23,847.3	26,542.9	28,378.3	28,847.5	31,280.8	34,271.8	36,600.1	42,205.1	44,809.3	51,156.6	54,812.4	59,528.9	63,041.9
Michigan	167.6	182.0	213.7	194.0	201.9	253.2	274.0	328.3	324.1	359.8	441.6	495.4	512.6	582.6
Mississippi	2,439.4	2,490.7	2,515.2	2,505.5	2,426.7	2,351.2	2,555.2	2,757.6	2,594.2	2,390.3	2,285.3	2,584.3	2,473.0	2,528.5
Montana	696.7	848.0	799.1	793.0	823.6	823.1	759.9	719.8	715.8	692.6	666.8	678.3	661.9	622.8
Nebraska	0.6	1.6	8.0	43.9	95.3	93.4	181.1	191.9	202.3	224.2	188.3	142.5	132.0	117.2
New Mexico	5,957.8	5,575.9	6,207.1	6,952.7	11,527.0	13,962.6	17,427.0	17,147.0	18,484.0	23,345.2	22,137.1	21,065.0	17,815.5	15,519.0
New York	64.5	67.2	66.3	64.4	66.4	68.3	70.6	69.0	75.3	84.8	92.9	95.9	105.9	95.7
North Dakota	--	--	--	6.3	69.6	97.8	169.0	163.1	279.2	395.3	739.4	1,118.4	1,200.0	1,144.8
Ohio	607.9	626.0	649.0	655.3	685.4	727.5	751.9	770.5	805.5	849.0	896.9	813.6	744.7	761.4
Oklahoma	11,289.2	11,270.9	11,562.8	11,571.1	11,740.2	11,700.9	12,162.0	12,328.8	13,133.0	13,700.2	14,182.0	15,124.2	16,560.9	17,217.4
Pennsylvania	480.4	614.1	618.3	623.8	616.1	705.7	747.8	728.2	750.3	772.0	849.0	865.3	1,046.3	1,186.0
Texas	89,536.6	95,188.8	98,631.8	101,847.9	105,079.4	105,158.5	105,951.1	104,558.1	107,699.4	112,116.5	112,470.4	114,420.9	119,821.5	118,840.4
Utah	66.3	69.4	65.2	84.3	95.3	281.9	1,107.0	385.3	418.6	616.4	854.6	1,052.3	1,257.4	1,517.9
Virginia	--	--	--	--	9.9	27.9	28.4	31.5	34.6	35.4	37.3	38.2	38.4	33.1
West Virginia	1,771.1	1,727.7	1,705.9	1,641.7	1,662.4	1,651.1	1,645.0	1,598.6	1,556.4	1,553.3	1,552.5	1,549.2	1,584.9	1,821.2
Wyoming	1,185.3	2,082.4	2,161.9	2,183.1	2,327.6	2,308.5	2,724.8	2,839.6	3,178.7	3,218.4	3,438.7	3,630.0	3,826.2	3,913.4
Miscellaneous(a)	0.1	8.0	11.9	16.4	30.3	31.4	30.5	33.6	44.1	59.9	68.3	87.4	105.2	122.7
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL U.S.(b)	165,025.8	172,925.1	179,401.7	184,584.7	192,758.9	198,631.6	210,298.8	210,560.9	222,482.5	236,483.2	245,230.1	252,761.8	261,170.4	262,326.3

See notes and sources at end of table

Section XIII
Table 11a

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	13.3	12.8	19.4	19.6	24.0	14.4	9.1	16.1	56.7	162.0	180.5	245.7	327.4	507.4
Alaska	921.8	1,634.3	1,690.7	1,831.4	1,985.3	2,946.9	3,635.3	5,252.3	5,202.1	31,130.8	31,365.4	31,455.4	31,642.6	31,866.6
Arkansas	1,469.0	1,643.7	1,792.6	2,100.1	2,269.0	2,599.6	2,811.3	2,715.1	2,632.8	2,580.7	2,430.1	2,455.9	2,269.4	2,113.4
California	9,054.2	9,121.4	8,865.7	9,053.7	8,832.4	8,474.4	7,723.8	7,316.3	6,870.9	6,299.8	5,729.5	5,328.9	5,199.8	5,194.6
Colorado	2,158.9	2,204.8	1,876.1	1,729.3	1,717.6	1,651.4	1,769.3	1,660.1	1,596.3	1,628.8	1,818.3	1,655.2	1,868.3	1,881.7
Florida	1.4	0.5	0.6	1.0	4.0	5.4	1.1	0.9	4.7	61.1	178.7	180.6	148.9	308.9
Illinois	163.3	158.2	168.6	179.5	209.7	236.5	258.6	297.9	337.8	415.4	499.0	545.4	380.5	399.4
Indiana	32.1	49.6	60.2	71.3	72.4	71.2	74.8	75.5	77.6	82.7	86.7	87.3	66.7	64.1
Kansas	19,085.8	18,567.2	17,994.2	17,278.1	16,596.4	15,923.3	15,283.7	14,511.2	14,125.1	13,325.1	12,535.2	11,938.7	11,722.4	11,704.7
Kentucky	1,120.7	1,108.9	1,085.2	1,094.4	1,092.2	1,017.0	954.0	923.3	920.5	977.8	956.3	938.1	864.9	844.0
Louisiana	65,670.1	71,544.1	75,365.0	79,076.3	82,811.2	83,684.1	86,290.0	88,015.6	85,056.6	82,956.7	78,625.8	74,971.3	69,151.6	64,052.4
Michigan	663.0	647.0	722.8	774.3	745.8	773.1	760.9	757.4	751.0	939.7	1,016.5	1,296.8	1,548.5	1,458.3
Mississippi	2,832.5	2,735.8	2,481.6	2,355.8	1,973.4	1,668.9	1,597.0	1,434.1	1,410.9	1,333.9	1,117.4	1,104.3	1,178.2	1,079.4
Montana	593.1	600.2	598.1	590.3	595.9	620.4	837.7	911.5	1,110.2	1,099.9	1,024.6	1,064.0	1,092.4	901.3
Nebraska	103.7	100.2	100.0	93.4	79.6	72.8	63.8	56.8	56.6	58.2	59.4	50.3	48.8	54.6
New Mexico	14,677.6	14,112.7	15,037.8	15,354.4	15,374.6	14,753.1	15,092.5	15,143.2	14,281.5	13,290.0	13,068.0	12,335.6	12,488.4	11,944.9
New York	127.6	131.2	132.3	133.5	135.7	120.9	121.1	124.1	120.5	126.0	139.1	139.2	136.8	165.5
North Dakota	943.4	962.7	1,119.6	1,110.6	1,121.2	1,024.5	882.1	866.8	648.6	567.4	503.7	441.6	448.2	432.7
Ohio	729.9	727.9	748.2	709.4	754.8	755.2	762.7	783.9	809.3	993.5	1,068.4	1,146.7	1,179.4	1,308.2
Oklahoma	17,256.7	18,259.0	19,138.8	19,757.2	20,357.4	20,122.2	19,403.8	18,368.3	17,593.2	16,954.3	15,712.8	14,492.0	14,098.7	13,390.3
Pennsylvania	1,162.5	1,175.1	1,214.5	1,243.6	1,257.0	1,350.6	1,392.2	1,345.0	1,303.9	1,377.5	1,395.9	1,406.9	1,494.4	1,492.1
Texas	119,187.9	118,854.8	117,809.4	118,855.1	120,616.8	123,609.3	125,415.1	119,001.1	112,392.6	106,353.0	101,472.1	95,042.0	84,936.5	78,540.7
Utah	2,019.1	1,786.4	1,638.3	1,519.4	1,438.8	1,372.2	1,226.5	1,156.6	1,090.8	1,065.2	982.0	1,022.1	1,024.7	1,031.4
Virginia	33.9	33.0	31.3	32.2	32.5	37.6	37.8	34.3	31.4	32.5	31.1	35.9	37.3	44.7
West Virginia	2,008.0	2,026.0	2,311.2	2,347.9	2,494.0	2,622.2	2,580.0	2,585.6	2,447.3	2,436.4	2,411.8	2,346.0	2,319.8	2,265.6
Wyoming	4,104.6	3,931.2	3,988.5	3,768.6	3,703.3	3,594.0	3,685.5	3,768.5	3,937.0	4,243.3	4,131.5	4,088.7	4,109.5	3,917.4
Miscellaneous(a)	139.6	150.0	160.2	171.2	174.0	211.6	238.3	228.4	242.7	255.0	256.0	270.0	165.9	168.1
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL U.S.(b)	266,273.6	272,278.9	276,151.2	281,251.5	286,468.9	289,332.8	292,907.7	287,349.9	275,108.8	290,746.4	278,805.6	266,084.8	249,950.2	237,132.5

See notes and sources at end of table

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	771.0	707.2	530.0	514.0	652.0	636.0	648.0	648.0	785.0	961.0	821.0	951.0	842.0
Alaska	32,050.7	31,929.6	32,243.0	32,045.0	32,259.0	33,382.0	33,037.0	34,990.0	34,283.0	34,476.0	33,847.0	32,664.0	33,225.0
Arkansas	1,993.3	1,728.3	1,660.0	1,681.0	1,703.0	1,774.0	1,801.0	1,958.0	2,069.0	2,227.0	2,019.0	1,992.0	1,997.0
California	5,484.0	5,342.0	4,737.0	4,947.0	5,022.0	5,414.0	5,617.0	5,552.0	5,781.0	5,554.0	4,325.0 (d)	3,928.0	3,740.0
Colorado	1,893.0	1,887.8	2,512.0	2,765.0	2,608.0	2,922.0	2,961.0	3,314.0	3,148.0	2,943.0	2,881.0	3,027.0	2,942.0
Florida	266.9	257.5	151.0	119.0	77.0	84.0	69.0	64.0	49.0	65.0	55.0	49.0	49.0
Illinois	380.8	376.9	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Indiana	59.8	45.4	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Kansas	12,661.2	11,950.6	11,457.0	10,992.0	10,243.0	9,508.0	9,860.0	9,724.0	9,553.0	9,387.0	9,337.0	10,509.0	10,494.0
Kentucky	812.6	771.5	451.0	545.0	468.0	508.0	530.0	551.0	554.0	613.0	766.0	841.0	909.0
Louisiana	61,309.4	57,501.8	57,010.0	55,725.0	50,042.0	47,325.0	47,377.0	44,916.0	42,561.0	41,399.0	14,038.0 (d)	12,930.0	12,430.0
Michigan	1,606.7	1,598.1	1,386.0	1,422.0	1,204.0	1,406.0	1,118.0	1,084.0	1,219.0	1,112.0	985.0	1,139.0	1,451.0
Mississippi	1,207.6	1,061.3	1,437.0	1,635.0	1,504.0	1,769.0	2,035.0	1,796.0	1,596.0	1,491.0	1,360.0	1,300.0	1,220.0
Montana	930.0	1,106.3	887.0	926.0	825.0	1,287.0	1,321.0	847.0	896.0	802.0	857.0	803.0	780.0
Nebraska	55.8	59.2	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
New Mexico	11,759.3	11,916.6	12,000.0	12,688.0	13,724.0	13,287.0	13,870.0	12,418.0	11,676.0	11,364.0	10,900.0	11,808.0	11,620.0
New York	215.8	236.0	165.0	193.0	211.0	208.0	264.0	229.0	295.0	389.0	369.0	457.0	410.0
North Dakota	416.8	405.9	361.0	374.0	439.0	537.0	581.0	629.0	600.0	566.0	569.0	541.0	508.0
Ohio	1,354.0	1,350.6	495.0	684.0	1,479.0	1,699.0	965.0	1,141.0	2,030.0	1,541.0	1,331.0	1,420.0	1,069.0
Oklahoma	13,083.0	12,435.3	13,889.0	14,417.0	13,816.0	13,138.0	14,699.0	16,207.0	16,211.0	16,126.0	16,040.0	16,685.0	16,711.0
Pennsylvania	1,682.5	1,651.9	769.0	899.0	1,515.0	951.0	1,264.0	1,429.0	1,882.0	1,575.0	1,617.0	1,560.0	1,647.0
Texas	71,036.9	64,651.4	56,422.0	55,583.0	53,021.0	50,287.0	50,469.0	49,757.0	50,052.0	49,883.0	41,775.0 (d)	40,574.0	38,711.0
Utah	917.4	829.9	877.0	925.0	948.0	1,201.0	1,912.0	2,161.0	2,333.0	2,080.0	1,999.0	1,895.0	1,947.0
Virginia	47.5	56.4	(c)	(c)	(c)	(c)	(c)	122.0	175.0	216.0	235.0	253.0	248.0
West Virginia	2,311.3	2,273.3	1,567.0	1,634.0	1,558.0	2,422.0	1,834.0	2,148.0	2,194.0	2,136.0	2,058.0	2,148.0	2,242.0
Wyoming	3,703.2	3,704.4	6,305.0	7,211.0	7,526.0	9,100.0	9,307.0	9,758.0	10,227.0	10,482.0	10,617.0	9,756.0	10,023.0
Miscellaneous(a)	189.4	191.0	102.0	109.0	153.0	176.0	191.0	69.0	78.0	75.0	76.0	133.0	65.0
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	34,492.0	34223	31,931.0
TOTAL U.S.(b)	228,200.2	216,026.1	207,413.0	208,033.0	200,997.0	199,021.0	201,730.0	201,512.0	200,247.0	197,463.0	193,369.0	191,586.0	187,211.0

See notes and sources at end of table

Section XIII
Table 11c

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1988	1989	1990
Alabama	809.0	819.0	4,125.0 (d)
Alaska	9,078.0 (f)	8,939.0	9,300.0
Arkansas	1,986.0	1,772.0	1,731.0
California	3,519.0	3,374.0	3,185.0
Colorado	3,535.0	4,274.0	4,555.0
Florida	51.0	46.0	45.0
Illinois	(c)	(c)	(c)
Indiana	(c)	(c)	(c)
Kansas	10,104.0	10,091.0	9,614.0
Kentucky	923.0	992.0	1,016.0
Louisiana	12,224.0	12,516.0	11,728.0
Michigan	1,323.0	1,342.0	1,243.0
Mississippi	1,143.0	1,104.0	1,126.0
Montana	819.0	867.0	899.0
Nebraska	(c)	(c)	(c)
New Mexico	17,166.0	15,434.0	17,260.0
New York	351.0	368.0	354.0
North Dakota	541.0	561.0	586.0
Ohio	1,229.0	1,275.0	1,214.0
Oklahoma	16,495.0	15,916.0	16,151.0
Pennsylvania	2,072.0	1,642.0	1,720.0
Texas	38,167.0	38,381.0	38,192.0
Utah	1,298.0	1,507.0	1,510.0
Virginia	230.0	217.0	138.0
West Virginia	2,306.0	2,201.0	2,207.0
Wyoming	10,308.0	10,744.0	9,944.0
Miscellaneous(a)	83.0	83.0	70.0
Federal Offshore(e)	32,264.0	32,651.0	31,433.0
TOTAL U.S.(b)	168,024.0	167,116.0	169,346.0

(a) Includes Arizona, Iowa, Maryland, Minnesota, Missouri, Oregon, South Dakota, Tennessee and Washington.
(b) Totals may not add due to independent rounding.
(c) Included in Miscellaneous.
(d) Beginning in 1985, figures for California, Louisiana, and Texas include offshore reserves in state waters only.
(e) Federal Offshore is a designation begun in the 1986 reported data. This number includes all state offshore reserves in federal waters, which accounts for the large decline in certain states beginning in 1985.
(f) An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during the last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

SOURCE: 1947-1976: API, AGA and CPA, Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada, Annuals.
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas And Natural Gas Liquids Reserves, Annuals.

Section XIII
Table 12

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1960		1970		1980		1983	
Company	Production	Company	Production	Company	Production	Company	Production
Exxon(b)	574,328	Exxon(b)	2,003,120	Exxon	1,231,145	Exxon	855,925
Standard of Ind.	573,050	Texaco(b)	1,399,410	Texaco(b)	955,570	Standard of Ind.	651,525
Phillips	501,853	Standard of Ind.	1,114,710	Standard of Ind.	820,520	Texaco(b)	582,540
Texaco(b)	499,971	Gulf	1,006,305	Mobil	711,750	Shell	539,105
Mobil(c)	398,945	Shell	930,020	Gulf(e)	660,030	Mobil	467,930
Shell	389,384	Mobil	813,585	Shell	649,700	Gulf(e)	465,740
Gulf(b)	365,000	Atlantic Richfield	728,905	Atlantic Richfield(b)	447,855	Atlantic Richfiel	453,159
Cities Service	323,564	Phillips	580,715	Standard of Calif.(b)	444,935	Standard of Calif.	421,968
Sun	273,694	Union	567,247	Union	425,225	Tenneco	357,149
Standard of Calif.	249,126	Standard of Calif.	537,645	Tenneco	406,789	Unocal (Union)(e)	298,351
Superiod(c)	233,999	Sun(d)	525,965	Sun(b)	382,520	Phillips	291,635
United Gas Corp.(d)	204,000	Getty	439,832	Phillips	344,195	Sun	270,830
Atlantic Richfield	186,040	Cities Service	368,614	Getty	312,171	Getty	266,774
Continental	161,477	Superior	338,836	Cities Service(e)	296,125	Occidental(e)	239,440
Sinclair	155,941	Continental	308,060	Conoco	283,970	Superior	234,732
Sunray-DX(d)	151,663	Tenneco	291,529	El Paso	283,000	DuPont(e)	213,160
Tidewater(d)	139,517	El Paso	219,730	Superior	283,000	El Paso	153,000
Union	124,963	Pennzoil-United	215,715	Pennzoil	213,825	Texas Oil & Gas	149,507
Skelly(d)	124,493	Marathon	171,597	Marathon	164,159	U.S. Steel	129,515
Pure(d)	114,614	Amerada Hess	160,892	Columbia(f)	156,698	Pennzoil	118,051
U.S. TOTAL	12,771,038	U.S. TOTAL	21,920,642	U.S. TOTAL	19,602,000	U.S. TOTAL	16,033,000

See notes and sources at end of table

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1984 Company	1984 Production	1985 Company	1985 Production	1986 Company	1986 Production	1987 Company	1987 Production
Texaco	964,726 (2)	Chevron	765,770	Chevron	718,320	Chevron	708,465
Exxon	907,025	Exxon	761,025	Exxon	700,435	Mobil	656,635
Chevron(h)	903,302	Texaco(g)	755,915	Shell	653,715	Texaco	644,590
Mobil(i)	750,440	Amoco (Std. of Ind.)	682,185	Amoco	631,815	Exxon	619,770
Standard of Ind.	693,500	Mobil	603,345	Texaco	613,930	Amoco	617,000
Shell	589,475	Shell	601,885	Mobil	546,770	Shell	558,085
Atlantic Richfield	501,462	Atlantic Richfield	434,355	ARCO	454,060	ARCO	464,280
Tenneco	433,601	Tenneco	375,692	Tenneco	364,677	Tenneco	368,377
Phillips(j)	372,994	Phillips	319,740	USX (U.S. Steel)(o)	308,042	Phillips(k)	281,780
Unocal	304,666	Unocal	287,255	Phillips	299,300	Occidental(k)	281,415
Sun	286,160	Sun	239,440	Unocal	248,930	USX	274,480
Occidental(k)	248,565	DuPont(k)	230,680	DuPont	248,000	Unocal	271,925
DuPont(k)	247,105	Occidental(k)	219,365	Occidental	244,185	Sun	230,315
Texas Oil & Gas	177,173	Texas Oil and Gas	198,475	Sun	219,000	DuPont(k)	219,365
U.S. Steel(l)	150,937	Consolidated Oil and Gas	150,100	Burlington Northern(p)	145,000	Burlington Northern	151,000
Pennzoil	144,329	Pennzoil	138,438	Enron	127,276	Union Pacific	124,830
Consolidated Natural Gas	126,600	U.S. Steel	137,712	Union Pacific	122,700	Enron	120,450
Columbia(m)	125,462	Union Pacific	115,194	Pennzoil	116,760	Pennzoil	115,052
Union Pacific	121,363	Enron Corp.(n)	109,309	Mesa(q)	112,367	Consolidated Natural Gas	109,562
El Paso	107,000	El Paso	107,000	Consolidated Natural Gas	112,000	Mesa	103,797
U.S. TOTAL	17,231,000	U.S. TOTAL	16,428,000	U.S. TOTAL	16,036,000	U.S. TOTAL	16,334,000

See notes and sources at end of table

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1988		1989	
Company	Production	Company	Production
Texaco	847,000	Chevron	880,745
Chevron	738,760	Amoco	756,280
Amoco(r)	695,325	Texaco	729,000
Exxon	658,825	Exxon	666,855
Mobil	658,000	Mobil	644,000
Shell	579,620	ARCO	558,085
ARCO	506,985	Shell	532,535
USX	312,440	USX	333,245
Phillips(k)	310,615	Phillips(k)	319,010
Occidental(k)	281,050	Unocal	277,035
Unocal	261,705	DuPont(k)	273,750
Oryx Energy (Sun)(s)	246,010	Oryx Energy	269,735
DuPont	237,250	Occidental(k)	266,450
Union Pacific	144,540	Union Pacific	153,300
Consolidated Natural Gas(t)	136,000	Consolidated Natural Gas(t)	147,000
Anadarko	128,537	Anadarko	141,147
Pennzoil	126,838	Mesa	137,167
Enron	121,925	Pennzoil	134,781
Mesa	116,414	Enron	123,319
Amerada Hess	103,337	Amerada Hess	122,316
U.S. TOTAL	16,992,000	U.S. TOTAL	17,115,000

See notes and sources at end of table

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

(a) Reported on a "dry" gas basis unless otherwise noted.
(b) Natural gas sales.
(c) Gross.
(d) Includes Canadian production.
(e) Volume before extraction of natural gas liquids.
(f) Includes synthetic gas.
(g) Sales. Texaco's figure also includes 100% of Getty Oil Company's estimated annualized production. (Texaco acquired Getty on March 1, 1984)
(h) Standard Oil of California acquired the Gulf Corporation on June 15, 1984, and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure includes 100% of Gulf's annualized production before the extraction of natural gas liquids.
(i) Mobil acquired Superior on September 23, 1984. Mobil's figure includes 100% of Superior's estimated annualized production.
(j) Phillips acquired Aminoil from R.J. Reynolds on October 26, 1984. Phillips' figure includes 100% of Aminoil's estimated annualized production.
(k) Volume before extraction of natural gas liquids.
(l) U.S. Steel acquired the U.S. assets of Husky Oil Ltd. on May 31, 1984. U.S. Steel's figure includes 100% of Husky's estimated annualized production of its U.S. assets.
(m) Includes synthetic gas and liquified petroleum gas.
(n) Formerly HNG/InterNorth, Inc. On June 1, 1985 InterNorth Inc. acquired the Houston Natural Gas Corporation and changed its name to reflect the acquisition. By April 1986 the corporation changed its name to Enron Corporation. Enron's figure includes Houston Natural Gas's 1985 full-year production. Enron's figure also includes cost and non-cost of service production.
(o) On February 11, 1986 a subsidiary of U.S. Steel merged with Texas Oil and Gas Corp. (TXO). On July 8,1986, in recognition of its major diversification into oil and gas businesses, U.S. Steel changed its name to USX Corporation.
(p) On December 13, 1985 Southland Royalty became a wholly-owned subsidiary of Burlington Northern Inc. (BNI). BNI also is the parent company of El Paso Natural Gas Company.
(q) On June 30, 1986, Mesa acquired the assets of Pioneer Corporation. Mesa's figure includes 100% of Pioneer's estimated annualized production.
(r) Figure includes certain oil and gas prpoperties acquired from Tenneco in 1988.
(s) On November 1, 1988 Oryx Energy Company acquired Sun Company's domestic oil and gas exploration and production business. Oryx's figure includes 201,054 million cubic feet of natural gas produced by the Sun Company during the first 10 months of 1988.
(t) Includes cost and non-cost of service production.

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R

Section XIII
Table 13

Average Price of Natural Gas Delivered to Residential Consumers by State (In Dollars per Thousand Cubic Feet)

State	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Alabama	1.13	1.10	1.09	1.13	1.19	1.27	1.37	1.55	1.57	1.99	2.31	2.71
Alaska	1.51	1.52	1.52	1.52	1.53	1.55	1.57	1.58	1.63	1.65	1.71	1.76
Arizona	0.96	0.97	1.04	1.20	1.23	1.24	1.37	1.50	1.53	2.12	2.61	3.07
Arkansas	0.72	0.70	0.71	0.75	0.79	0.83	0.87	1.06	1.12	1.23	1.98	1.96
California	0.93	0.93	0.93	0.99	1.03	1.08	1.16	1.38	1.57	1.77	1.89	1.99
Colorado	0.66	0.68	0.69	0.72	0.75	0.78	0.83	1.00	1.16	1.27	1.62	1.94
Connecticut	1.83	1.81	1.82	1.91	2.07	2.09	2.25	2.79	3.29	3.41	4.34	4.47
Delaware	1.60	1.59	1.50	1.58	1.63	1.71	1.65	2.11	2.43	2.61	3.25	4.06
District of Columbia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Florida	2.26	2.59	2.48	2.51	2.54	2.66	2.70	2.85	2.74	2.81	3.53	3.54
Georgia	1.03	1.02	1.02	1.05	1.13	1.26	1.30	1.40	1.50	1.69	1.97	2.33
Hawaii	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Idaho	1.29	1.36	1.37	1.39	1.49	1.51	1.52	1.80	2.18	2.24	2.86	3.41
Illinois	1.02	1.02	1.00	1.05	1.07	1.13	1.21	1.35	1.61	1.90	2.21	2.50
Indiana	0.98	0.94	0.94	1.01	1.08	1.14	1.20	1.28	1.45	1.69	2.02	2.17
Iowa	0.93	0.93	0.94	0.97	1.03	1.11	1.17	1.22	1.43	1.61	1.93	2.25
Kansas	0.59	0.63	0.64	0.68	0.72	0.74	0.75	0.90	1.03	1.48	1.73	1.77
Kentucky	0.84	0.79	0.80	0.83	0.88	0.93	0.99	1.10	1.23	1.32	1.79	1.94
Louisiana	0.75	0.75	0.75	0.77	0.84	0.91	0.97	1.12	1.37	1.57	1.97	2.47
Maine	1.96 (b)	2.05 (b)	1.97 (b)	1.99 (b)	2.05 (b)	2.14 (b)	2.17 (b)	2.38 (b)	2.65 (b)	2.68 (b)	3.62 (b)	3.57 (b)
Maryland	1.44 (c)	1.42 (c)	1.42 (c)	1.45 (c)	1.51 (c)	1.65 (c)	1.68 (c)	0.50 (c)	2.33 (c)	2.57 (c)	3.18 (c)	3.40 (c)
Massachusetts	1.88	1.86	1.86	1.92	2.12	2.29	2.40	2.71	3.15	3.64	3.95	4.17
Michigan	0.98	0.98	0.98	1.01	1.06	1.10	1.18	1.37	1.62	1.90	2.22	2.31
Minnesota	1.03	1.03	1.07	1.10	1.18	1.23	1.30	1.41	1.57	1.74	2.13	2.41
Mississippi	0.88	0.97	0.88	0.88	0.94	1.08	1.09	1.23	1.41	1.71	2.11	2.40
Missouri	0.84	0.86	0.89	0.96	1.02	1.10	1.16	1.27	1.49	1.70	2.18	2.29
Montana	0.80	0.82	0.88	0.91	0.93	0.97	1.09	1.12	1.30	1.36	1.82	1.89
Nebraska	0.79	0.80	0.83	0.85	0.92	0.99	1.04	1.14	1.28	1.37	1.80	1.97
Nevada	1.42	1.51	1.49	1.51	1.51	1.52	1.54	1.72	1.95	2.04	2.78	2.80
New Hampshire	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
New Jersey	1.91	1.91	1.85	1.89	1.95	2.02	2.08	2.25	2.69	3.14	3.42	3.53
New Mexico	0.91	0.89	0.91	0.93	0.95	0.97	1.00	1.24	1.33	1.36	2.11	2.50
New York	1.42	1.38	1.37	1.40	1.50	1.62	1.74	2.00	2.54	2.87	3.28	3.68
North Carolina	1.31	1.29	1.25	1.30	1.34	1.41	1.51	1.69	2.02	2.13	2.81	3.00
North Dakota	0.94	0.93	0.95	1.02	1.10	1.13	1.14	1.19	1.51	1.79	2.11	2.33
Ohio	0.86	0.85	0.87	0.90	0.98	1.05	1.11	1.24	1.50	1.77	2.21	2.43
Oklahoma	0.78	0.77	0.82	0.84	0.87	0.90	0.92	1.05	1.22	1.50	1.78	1.93
Oregon	1.57	1.54	1.49	1.51	1.60	1.68	1.76	2.00	2.20	2.68	3.43	3.83
Pennsylvania	1.15	1.15	1.18	1.24	1.28	1.36	1.48	1.66	1.93	2.14	2.51	2.63
Rhode Island	1.81	1.78	1.78	1.83	1.93	2.05	2.37	2.55	3.09	3.36	4.23	4.18
South Carolina	1.40	1.32	1.33	1.35	1.47	1.62	1.65	1.97	2.13	2.29	2.87	3.00
South Dakota	0.99	0.99	1.01	1.04	1.10	1.13	1.19	1.29	1.40	1.50	1.83	2.10
Tennessee	0.90	0.88	0.89	0.91	0.98	1.02	1.08	1.17	1.29	1.61	2.09	2.14
Texas	0.87	0.87	0.90	0.92	0.99	1.01	1.04	1.17	1.52	1.99	2.39	2.73
Utah	0.68	0.74	0.83	0.85	0.87	0.90	0.99	1.07	1.22	1.38	1.64	1.93
Vermont	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Virginia	1.46	1.44	1.43	1.49	1.52	1.60	1.68	1.87	2.24	2.54	3.03	3.27
Washington	1.48	1.43	1.36	1.40	1.43	1.47	1.55	1.77	2.27	2.70	3.12	3.48
West Virginia	0.84	0.87	0.88	0.89	0.94	0.96	0.97	1.10	1.45	1.67	2.55	2.61
Wisconsin	1.02	1.10	1.16	1.25	1.26	1.34	1.43	1.50	1.75	2.11	2.50	2.68
Wyoming	0.66	0.67	0.68	0.68	0.71	0.74	0.77	0.85	1.02	1.18	1.59	1.91
Total	1.04	1.04	1.05	1.09	1.15	1.21	1.29	1.43	1.71	1.98	2.35	2.56

See notes and sources at end of table

Section XIII
Table 13a

Average Price of Natural Gas Delivered to Residential Consumers by State
(In Dollars per Thousand Cubic Feet)

State	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	3.65	4.04	4.77	5.58	6.22	6.26	6.41	6.52	6.64	6.51	6.27	6.57
Alaska	1.71	1.73	1.95	1.79	2.33	2.49	2.81	3.25	3.21	3.46	3.63	3.79
Arizona	3.50	4.05	4.63	5.92	6.63	7.16	7.00	6.28	6.11	6.99	6.94	6.85
Arkansas	1.57	2.47	3.04	3.82	4.40	4.37	4.43	4.83	4.63	4.81	4.85	5.10
California	2.47	3.51	3.74	4.43	5.41	5.84	5.72	5.14	5.26	5.64	5.59	5.78
Colorado	2.48	3.23	4.17	4.89	5.51	5.24	5.10	5.01	4.74	4.42	4.63	4.57
Connecticut	4.74	5.84	6.85	8.51	9.70	8.80	9.15	8.83	8.21	7.87	8.25	8.58
Delaware	4.03	4.30	5.53	6.04	6.59	6.67	7.06	7.09	6.32	6.00	6.42	6.13
District of Columbia	(a)	4.57	5.50	6.64	8.10	8.05	7.91	7.52	7.09	6.96	7.44	7.18
Florida	3.70	4.80	5.31	6.59	6.85	7.18	7.46	7.20	7.48	7.49	8.06	8.47
Georgia	2.88	3.67	4.34	5.33	6.10	6.41	6.60	6.63	6.34	6.22	6.24	6.82
Hawaii	NA	12.99	15.57	15.70	16.46	17.36	18.12	16.09	15.90	15.69	15.66	16.45
Idaho	3.73	4.97	5.57	6.92	7.38	6.89	6.89	6.02	5.50	5.49	5.05	5.05
Illinois	3.01	3.61	4.05	4.73	5.46	5.37	5.55	5.07	4.81	4.60	4.92	5.06
Indiana	2.65	3.15	3.60	4.38	5.49	5.69	5.54	5.52	4.95	5.16	5.51	5.38
Iowa	2.68	3.19	3.89	4.69	5.52	5.56	5.39	5.12	4.75	4.79	4.70	4.99
Kansas	1.95	2.36	3.03	4.06	4.68	4.49	4.12	3.89	4.09	4.02	4.17	4.48
Kentucky	2.35	3.03	3.49	4.46	5.30	5.20	5.31	4.93	4.53	4.48	4.68	4.93
Louisiana	2.71	3.40	4.15	5.32	6.12	5.98	5.67	5.77	5.56	5.74	5.97	6.09
Maine	4.10 (b)	6.34	7.45	8.63	9.82	9.58	9.07	8.51	8.04	7.26	7.16	7.61
Maryland	3.76 (c)	4.46	5.07	6.12	7.42	7.44	7.25	6.88	6.37	5.90	6.30	6.45
Massachusetts	4.55	5.42	6.37	7.54	8.32	7.83	7.83	7.41	6.64	6.47	7.16	7.82
Michigan	2.64	3.19	3.84	4.79	5.84	5.97	6.29	5.74	5.46	5.34	5.19	5.02
Minnesota	2.86	3.22	4.09	4.96	5.90	6.00	5.80	5.28	4.58	4.64	4.57	4.63
Mississippi	2.83	3.47	3.99	4.93	5.88	5.52	5.46	5.59	6.10	5.85	5.10	5.33
Missouri	2.75	3.28	4.02	5.20	6.12	5.85	5.49	5.03	4.76	4.76	4.84	5.21
Montana	2.21	3.05	3.75	4.45	4.62	4.86	4.81	4.45	4.41	4.30	4.37	4.59
Nebraska	2.30	2.72	3.45	4.15	4.95	5.09	5.01	4.59	4.36	4.46	4.48	4.60
Nevada	2.83	4.06	4.84	5.56	6.81	6.95	7.04	5.98	5.31	5.87	5.55	5.66
New Hampshire	(4)	4.66	5.68	6.85	7.47	7.02	7.15	7.07	6.50	6.28	6.85	7.41
New Jersey	4.30	5.06	5.87	7.03	7.43	7.30	7.49	7.35	6.60	6.32	6.51	6.60
New Mexico	2.73	3.32	3.86	4.94	5.50	5.90	6.08	5.72	4.98	5.23	5.73	5.67
New York	4.12	4.95	5.50	6.51	7.87	7.64	7.74	7.46	6.88	6.50	7.22	7.40
North Carolina	3.52	4.11	5.17	5.73	6.65	6.68	6.60	6.62	6.66	6.25	6.55	6.17
North Dakota	2.88	3.85	4.28	4.61	5.56	6.38	5.59	5.29	5.47	5.15	4.68	4.70
Ohio	2.81	3.54	3.97	4.96	6.08	6.07	6.04	5.80	5.35	5.21	5.32	5.29
Oklahoma	2.20	2.46	2.94	3.53	4.33	4.56	4.58	5.01	4.63	4.52	4.50	4.80
Oregon	4.12	5.60	6.06	6.92	7.23	7.18	6.93	6.61	6.62	6.79	6.19	6.27
Pennsylvania	3.19	3.80	4.51	5.42	6.44	6.56	6.72	6.39	6.03	5.79	6.14	6.61
Rhode Island	3.67	5.69	6.61	7.95	8.66	7.50	7.87	7.46	6.81	6.60	7.13	7.22
South Carolina	3.50	4.19	4.90	5.51	6.38	6.62	6.62	6.54	6.59	6.73	6.73	7.17
South Dakota	2.61	3.13	3.91	4.71	5.59	6.16	5.75	5.26	4.87	4.91	4.85	5.14
Tennessee	2.37	2.89	3.44	4.32	5.26	5.04	5.12	4.97	4.68	4.65	4.83	5.11
Texas	3.21	3.40	4.20	5.21	5.55	5.82	5.77	5.31	5.20	5.37	5.55	5.78
Utah	2.22	2.74	3.23	3.41	4.26	5.68	4.86	4.64	4.97	5.11	5.14	5.28
Vermont	(d)	6.22	7.00	7.24	6.79	6.30	6.28	6.28	6.23	5.65	5.62	5.79
Virginia	3.71	4.26	4.66	6.02	7.03	6.99	7.02	6.49	5.86	5.81	6.59	6.75
Washington	3.95	5.31	6.02	6.87	6.87	6.84	6.60	5.93	5.42	5.50	5.49	5.02
West Virginia	2.93	3.59	4.24	5.20	6.00	6.12	6.39	6.34	5.98	5.50	5.73	6.46
Wisconsin	3.06	3.83	4.77	5.64	6.48	6.51	6.47	6.20	6.00	5.89	5.64	5.74
Wyoming	2.51	2.81	3.51	4.53	5.13	5.84	5.17	4.93	4.70	4.48	4.71	4.84
Total	2.98	3.68	4.29	5.17	6.06	6.12	6.12	5.83	5.54	5.47	5.64	5.80

See notes and sources at end of table

Average Price of Natural Gas Delivered to Residential
(In Dollars per Thousand Cubic Feet)

NA = Not Available
(a) Included in Maryland averages.
(b) Averages include New Hampshire and Vermont.
(c) Averages include the District of Columbia.
(d) Included in Maine averages.

SOURCE: U.S. Energy Information Administration, Natural Gas Annuals.

Section XIII
Table 14

Historical United States Gross and Marketed Production of Natural Gas: 1935-1946
(Millions of Cubic Feet)

Year	Gross Production	Repressuring	Vented and Flared(a)	Marketed Production(b)
1935	2,498,005	90,290	479,826	1,927,889
1936	2,633,835	73,507	392,528	2,178,800
1937	3,032,410	84,925	526,159	2,421,326
1938	3,061,200	101,551	649,106	2,310,543
1939	3,333,500	171,401	677,311	2,484,788
1940	3,694,100	362,916	655,967	2,675,217
1941	4,103,500	644,379	630,212	2,828,909
1942	4,453,900	752,619	626,782	3,074,499
1943	5,160,650	824,803	902,115	3,433,642
1944	5,614,220	882,979	1,010,285	3,720,956
1945	5,902,180	1,061,951	896,208	3,944,021
1946	6,190,200	1,038,242	1,102,033	4,049,925

(a) Partly estimated; includes direct losses on producing properties and residue blown to the air.
(b) Marketed production equals gross production, less amounts used for repressuring, vented and flared.

SOURCE: U.S. Bureau of Mines, Mineral Industry Surveys, Natural Gas Annuals.

BASIC PETROLEUM DATA BOOK

SECTION XIV. OPEC

Table 1. OPEC Crude Oil Reserves
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Section XIV
Table 1

OPEC Crude Oil Reserves Annually as of January 1
(Millions of Barrels)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC
1960	50,000	62,000	6,500	35,000	25,000	18,000	-	-	-	-	-	-	-	-	196,500
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	-	-	-	-	-	-	-	201,000
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	-	-	-	-	-	214,300
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	-	-	-	-	-	220,000
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000	-	-	-	-	-	232,950
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	-	-	-	-	-	238,500
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	-	-	-	-	-	239,650
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	-	-	-	-	278,900
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	-	-	-	-	299,450
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	-	-	-	326,225
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000	-	-	-	391,750
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000 (j)	9,300	-	-	431,900
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	-	-	425,251
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,870
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19,500	1,700	2,125	440,395
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,600	29,411	8,440	17,400	1,100	500	435,591
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355
1982	164,600	64,480	6,500	57,000	29,700	20,300	3,434	22,600	9,800	32,176	8,080	16,500	850	480	436,500
1983	162,400	64,230	5,840	55,308	41,000	21,500	3,425	21,500	9,550	32,354	9,440	16,750	1,400	460	445,157
1984	166,000	63,900	5,695	51,000	43,000	24,850	3,330	21,270	9,100	32,240	9,220	16,550	1,675	490	448,320
1985	169,000	90,000	5,420	48,500	44,500	25,845	3,350	21,100	8,650	32,390	9,000	16,650	1,400	510	476,315
1986	168,800	89,774	5,380	47,876	44,110	25,591	3,300	21,300	8,500	32,890	8,820	16,600	1,650	520	475,111
1987	166,574	91,916	5,212	48,800	47,100	25,500	3,154	21,300	8,300	33,050	8,800	16,000	1,672	645	478,023
1988	166,980	91,920	5,210	92,850	100,000	56,300	3,150	21,000	8,400	97,705	8,500	15,980	1,615	645	670,255
1989	169,970	91,920	5,210	92,850	100,000	58,084	3,150	22,000	8,250	97,705	8,400	16,000	1,350	720	675,609
1990	254,959	94,525	5,200	92,860	100,000	58,504	4,500	22,800	8,200	97,705	9,200	16,000	1,514	733	766,700
1991	257,504	94,525	5,000	92,850	100,000	59,040	4,500	22,800	11,050	97,700	9,200	17,100	1,420	730	773,419

(a) Original member 1960.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Government estimate

SOURCE: Oil and Gas Journal, "Worldwide Report" issue

Section XIV
Table 2

OPEC Crude Oil Production
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC
1960	1,247	1,624	136	1,054	967	2,846	-	-	-	-	-	-	-	-	7,874
1961	1,393	1,644	179	1,183	1,002	2,920	176	-	-	-	-	-	-	-	8,497
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	-	-	-	-	-	9,954
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	-	-	-	-	-	10,865
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	-	-	-	-	-	12,082
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	-	-	-	-	-	13,177
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	-	-	-	-	-	14,217
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	-	-	-	-	15,631
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	-	-	-	-	17,660
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	-	-	-	20,341
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	-	-	-	22,134
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	-	-	25,092
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	-	-	26,711
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371
1979	9,251	2,213	568	3,168	3,477	2,356	506	2,092	1,591	1,831	1,137	2,302	214	203	30,911
1980	9,631	1,389	544	1,662	2,514	2,165	471	1,830	1,576	1,702	1,020	2,058	204	175	26,941
1981	9,625	947	370	1,381	993	2,108	405	1,137	1,604	1,500	803	1,445	211	151	22,680
1982	6,327	663	317	2,282	972	1,893	328	1,183	1,314	1,248	701	1,298	211	154	18,891
1983	4,867	881	390	2,492	922	1,781	295	1,076	1,385	1,119	699	1,241	236	157	17,541
1984	4,444	912	410	2,187	1,203	1,813	399	1,073	1,466	1,097	638	1,393	253	152	17,440
1985	3,290	862	355	2,258	1,437	1,621	302	1,069	1,235	1,146	645	1,464	280	153	16,117
1986	4,935	1,344	332	1,929	1,746	1,576	342	1,137	1,264	1,331	671	1,461	289	180	18,537
1987	4,067	1,034	391	2,451	2,076	1,572	308	972	1,191	1,454	635	1,286	167	156	17,760
1988	5,128	1,255	311	2,284	2,599	1,661	315	1,054	1,159	1,506	633	1,379	309	175	19,768
1989	4,904	1,602	397	2,858	2,809	1,713	378	1,096	1,217	1,882	695	1,639	287	220	21,696
1990	6,287	1,073	298	3,076	1,948	2,103	385	1,350	1,249	2,062	765	1,779	285	278	22,940

(a) Original member 1960.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.

SOURCE: 1960-1978: U.S. Energy Information Administration
1979-1990: CIA, International Energy Statistical Review

Section XIV
Table 3

United States Total Petroleum Imports from OPEC Nations (Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Petroleum Imports
1960	79	146	45	36	17	832	-	-	-	8	-	-	-	-	1,163	1,815
1961	69	130	53	60	25	800	36	-	-	-	-	-	-	-	1,173	1,917
1962	73	120	43	49	2	907	27	19	67	-	-	-	-	-	1,307	2,082
1963	86	89	44	62	1	899	17	19	59	-	-	-	-	-	1,276	2,123
1964	106	69	48	66	-	931	20	39	63	-	-	-	-	-	1,342	2,258
1965	144	60	27	79	16	994	13	41	61	-	-	-	-	-	1,435	2,468
1966	135	31	19	89	26	1,021	1	69	50	-	-	-	-	-	1,441	2,573
1967	86	23	11	71	5	935	-	42	62	5	-	-	-	-	1,240	2,537
1968	60	48	29	61	-	888	-	114	73	15	-	-	-	-	1,288	2,840
1969	42	39	43	46	-	876	1	135	89	14	2	-	-	-	1,287	3,166
1970	42	36	-	38	-	989	-	47	70	63	8	-	-	-	1,293	3,419
1971	127	36	-	112	11	1,019	-	57	111	80	15	103	-	-	1,671	3,925
1972	190	45	-	142	4	960	3	123	164	73	92	251	-	-	2,047	4,741
1973	486	47	-	223	4	1,135	7	164	213	71	135	459	48	-	2,992	6,256
1974	461	5	-	469	-	979	17	4	300	74	190	713	42	23	3,277	6,112
1975	715	15	-	280	3	698	18	232	388	117	282	762	57	27	3,594	6,056
1976	1,230	5	-	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,313
1977	1,380	48	-	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807
1978	1,144	6	-	555	62	645	64	654	573	385	649	919	54	41	5,751	8,363
1979	1,356	8	-	304	88	690	31	658	420	281	636	1,080	42	42	5,636	8,456
1980	1,261	25	-	9	28	481	22	554	348	172	488	857	27	26	4,298	6,909
1981	1,129	-	-	-	(j)	406	7	319	366	81	311	620	48	35	3,324	5,996
1982	552	5	-	35	3	412	7	26	248	92	170	514	42	40	2,145	5,113
1983	337	14	-	48	10	422	-	-	338	30	240	302	61	59	1,863	5,051
1984	325	36	-	10	12	548	5	1	343	117	323	216	55	58	2,049	5,437
1985	168	21	-	27	46	605	-	4	314	45	187	293	67	52	1,830	5,067
1986	685	68	-	19	81	793	13	-	318	44	271	440	77	26	2,836	6,224
1987	751	84	-	98	83	804	-	-	285	61	295	535	29	35	3,061	6,678
1988	1,064	92	9	-	345	794	-	-	205	29	300	618	47	16	3,520	7,402
1989	1,224	157	-	-	449	873	2	-	183	28	269	815	89	50	4,140	8,061
1990	1,339	86	-	-	518	1,025	4	-	114	17	280	800	49	64	4,296	8,018

(a) Original member 1960.
(b) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together wiht Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Less than 500 barrels per day.

SOURCE: 1960-1980: U.S. Energy Information Administration. P.A.D. District Supply/Disposition Annual
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals

United States Crude Oil Imports from OPEC Nations(j)
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Crude Oil Imports
1960	77	130	45	36	17	472	-	-	-	-	-	-	-	-	777	1,015
1961	62	121	53	60	20	427	10	-	-	-	-	-	-	-	753	1,045
1962	67	112	43	49	2	463	26	18	67	-	-	-	-	-	847	1,126
1963	79	81	44	62	1	478	16	19	59	-	-	-	-	-	839	1,131
1964	97	64	48	66	-	476	20	39	63	-	-	-	-	-	873	1,198
1965	132	55	27	78	16	432	12	41	61	-	-	-	-	-	854	1,238
1966	126	26	19	84	26	404	1	69	50	-	-	-	-	-	805	1,225
1967	81	19	11	65	5	359	-	42	62	5	-	-	-	-	649	1,128
1968	52	43	29	58	-	344	-	114	73	15	-	-	-	-	728	1,290
1969	35	34	43	42	-	306	1	134	89	14	1	-	-	-	699	1,409
1970	40	33	-	33	-	268	-	47	70	63	6	-	-	-	560	1,324
1971	115	29	-	106	11	303	-	53	110	80	13	95	-	-	915	1,681
1972	174	36	-	136	4	255	3	109	163	73	87	243	-	-	1,283	2,216
1973	462	42	-	217	4	344	7	133	200	71	119	448	47	-	2,094	3,244
1974	438	5	-	463	-	319	17	4	284	69	180	697	42	23	2,541	3,477
1975	701	4	-	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105
1976	1,222	1	-	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287
1977	1,369	42	-	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,615
1978	1,142	5	-	554	62	181	64	638	533	385	634	910	36	38	5,184	6,356
1979	1,347	5	-	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519
1980	1,250	27	-	8	28	156	22	548	314	172	456	841	17	25	3,864	5,263
1981	1,112	-	-	-	-	147	7	317	318	77	261	611	38	35	2,922	4,396
1982	530	2	-	35	3	155	7	23	226	81	90	510	32	40	1,734	3,488
1983	321	7	-	48	10	164	-	-	315	18	176	301	56	59	1,477	3,329
1984	309	24	-	10	12	253	4	-	304	90	194	207	47	57	1,511	3,426
1985	132	4	-	27	46	306	-	-	292	35	84	280	56	51	1,312	3,201
1986	618	28	-	19	81	416	12	-	297	38	78	437	64	25	2,113	4,178
1987	642	70	-	98	82	488	-	-	262	56	115	529	23	35	2,400	4,674
1988	902	80	9	-	343	439	-	-	186	23	58	607	33	15	2,696	5,107
1989	1,116	155	-	-	441	495	2	-	158	21	60	800	80	49	3,376	5,843
1990	1,195	79	-	-	514	666	4	-	98	9	63	784	38	64	3,514	5,894

(a) Original member 1960.
(b) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah, and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: 1960-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statement
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals

Section XIV
Table 5

OPEC Refinery Capacity
(Thousands of Barrels per Day)

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Algeria	43.7	57.5	57.5	57.5	57.5	57.5	57.5	115.8	115.8	115.8	115.8	115.8	115.8	115.8	135.1
Ecuador	18.2	10.9	19.4	34.5	34.5	34.5	35.5	35.5	35.5	43.9	43.9	43.9	99.5	99.5	94.5
Gabon	--	--	11.9	11.9	14.0	16.0	17.0	17.0	17.0	17.0	20.0	44.0	44.0	44.0	44.0
Indonesia	236.9	241.4	251.2	251.2	256.0	283.5	361.3	361.3	361.3	361.3	361.3	473.4	473.4	473.4	473.4
Iran	466.5	524.2	524.2	594.0	594.0	594.0	605.0	605.0	660.0	690.0	810.0	810.0	1,050.0	1,080.0	1,080.0
Iraq	81.7	81.7	97.7	102.7	102.7	115.7	115.7	115.7	183.5	253.5	253.5	253.5	253.5	295.5	305.5
Kuwait	342.0	342.0	342.0	437.0	437.0	437.0	437.0	484.5	541.5	541.5	609.0	609.0	594.0	594.0	594.0
Libya	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	63.0	63.0	63.0	117.0	117.0	117.0
Nigeria	30.3	30.3	40.0	40.0	40.0	52.1	54.0	54.0	54.0	54.0	54.0	54.0	54.0	144.0	144.0
Qatar	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	9.7	9.7	9.7	9.7	10.5
Saudi Arabia	302.5	335.0	335.0	347.0	347.0	676.0	676.0	676.0	676.0	676.0	703.0	703.0	703.0	758.0	758.0
United Arab Emirates	--	--	--	--	--	--	--	--	--	--	--	15.0	13.5	13.5	13.5
Venezuela	1,119.8	1,134.5	1,216.8	1,222.2	1,258.0	1,289.4	1,294.9	1,473.9	1,473.9	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9
TOTAL OPEC	2,651.2	2,767.2	2,905.4	3,107.7	3,150.4	3,565.4	3,663.6	3,948.4	4,128.2	4,290.6	4,488.1	4,637.7	4,972.3	5,189.3	5,214.4

See notes and sources at end of table

Section XIV
Table 5a

OPEC Refinery Capacity
(Thousands of Barrels per Day)

Country	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	474.5	474.5
Ecuador	94.5	94.5	94.5	94.6	94.6	94.6	94.6	133.0	133.0	135.1	132.0
Gabon	44.0	44.0	44.0	44.0	44.0	21.0	21.0	21.0	20.0	20.0	20.0
Indonesia	473.4	473.4	473.4	837.0	837.0	837.0	738.7	738.7	738.7	751.3	751.3
Iran	1,320.0	1,320.0	670.0	670.0	615.0	615.0	615.0	615.0	615.0	766.0	766.0
Iraq	305.5	305.5	215.5	365.5	365.5	365.5	365.5	365.5	365.5	550.0	550.0
Kuwait	594.0	594.0	594.0	564.0	564.0	564.0	614.0	670.0	670.0	670.0	670.0
Libya	117.0	117.0	117.0	117.0	315.0	333.0	342.0	342.0	342.0	342.0	342.0
Nigeria	234.0	234.0	234.0	234.0	234.0	234.0	243.0	265.5	265.5	400.5	400.5
Qatar	10.5	10.5	13.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	60.0
Saudi Arabia	645.0	765.0	765.0	935.0	1,190.0	1,440.0	1,440.0	1,425.0	1,425.0	1,425.0	1,757.5
United Arab Emirates	13.5	121.5	121.5	175.5	162.0	162.0	162.0	162.0	162.0	162.0	162.0
Venezuela	1,444.9	1,444.9	1,323.1	1,323.1	1,224.2	1,229.2	1,224.2	1,258.1	1,201.1	1,167.0	2,458.0
TOTAL OPEC	5,767.5	5,995.5	5,136.2	5,893.9	6,179.5	6,429.5	6,394.2	6,530.0	6,472.0	6,926.4	8,543.8

SOURCE: OPEC Annual Statistical Bulletin

OPEC'S Value of Petroleum Exports
(Millions of Dollars)

Country	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Algeria	$508	$532	$589	$631	$681	$614	$1,028	$1,522	$4,267	$4,295	$4,791	$5,562	$5,856	$8,746	$12,647	$2,985	$10,770
Ecuador	1	1	1	1	1	1	59	282	693	516	565	500	604	1,161	1,563	1,709	1,509
Gabon	14	32	38	53	58	82	93	196	709	841	881	927	975	1,265	1,876	1,723	1,720
Indonesia	203	240	298	383	446	565	913	1,609	5,211	5,311	6,004	7,298	7,439	8,871	15,595	18,164	15,223
Iran	1,148	1,748	1,688	1,857	2,358	3,494	3,636	5,617	20,904	19,634	22,923	23,599	21,684	19,186	13,286	12,053	19,233
Iraq	698	610	755	769	788	1,083	1,027	1,842	6,534	8,227	9,201	9,560	10,913	21,382	26,296	10,422	10,104
Kuwait	808	803	860	910	1,596	2,143	2,370	3,520	10,394	8,424	8,953	8,778	9,422	16,770	17,678	13,790	8,827
Libya	1,002	1,169	1,857	2,159	2,357	2,697	2,888	3,919	8,175	6,677	9,399	11,220	9,681	15,693	21,396	14,531	13,250
Nigeria	260	204	104	367	715	1,342	1,796	2,905	8,619	7,569	9,943	11,046	8,986	16,303	25,262	17,569	12,833
Qatar	180	202	210	222	227	301	382	601	1,979	1,757	2,137	1,982	2,294	3,643	5,405	5,348	4,106
Saudi Arabia	1,298	1,384	2,020	2,107	2,418	3,803	5,477	8,956	35,476	29,473	38,157	43,308	40,332	62,855	108,174	118,998	78,119
United Arab Emirate	247	262	335	391	485	718	998	1,867	6,948	6,762	8,258	9,132	8,624	12,915	19,558	18,815	15,337
Venezuela	2,190	2,307	2,330	2,279	2,371	2,882	2,857	4,328	10,548	8,324	8,763	9,110	8,740	13,633	18,248	19,039	15,624
TOTAL OPEC	8,558	9,493	11,085	12,129	14,501	19,725	23,524	37,164	120,457	107,810	129,975	142,022	135,550	202,423	286,984	265,146	206,655

See notes and sources at end of table

OPEC'S Value of Petroleum Exports
(Millions of Dollars)

Country	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	$9,467	$9,189	$9,170	$4,819	$6,057	$4,988	$7,000	$8,854
Ecuador	1,733	1,835	1,927	983	724	976	1,147	1,258
Gabon	1,500	1,767	1,629	723	896	779	1,200	1,967
Indonesia	13,558	12,477	9,083	5,501	6,157	5,185	5,716	8,700
Iran	19,225	12,255	13,115	7,183	10,515	8,170	12,500	17,300
Iraq	9,900	11,992	10,685	6,905	11,416	10,952	14,500	9,463
Kuwait	9,736	10,740	9,817	6,378	7,520	6,295	10,863	5,536
Libya	11,905	10,747	9,962	5,787	6,011	5,169	7,500	9,700
Nigeria	10,266	11,704	12,353	6,177	7,023	6,126	8,700	13,200
Qatar	3,104	4,381	3,068	1,720	1,829	1,709	2,000	2,800
Saudi Arabia	44,832	36,263	24,180	16,975	19,271	20,500	24,000	39,700
United Arab Emirate	12,235	12,978	11,842	7,453	8,665	7,352	11,500	15,000
Venezuela	13,839	12,145	10,352	6,713	6,959	8,162	10,020	13,958
TOTAL OPEC	161,260	148,473	127,181	77,314	93,042	86,364	116,646	147,436

SOURCE: OPEC Annual Statistical Bulletin 1987, and 1989.

Section XIV
Table 7

OPEC Marketed Production of Natural Gas
(Millions of Cubic Meters)

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Algeria	1,780	1,961	2,128	2,357	2,972	2,599	6,573	4,092	3,196	3,807	7,516	7,585	5,738	8,078	15,548	11,647	21,862
Ecuador	--	--	--	14	14	14	14	17	28	28	31	31	40	40	35	31	55
Gabon	11	11	17	24	22	32	31	34	283	637	262	169	177	165	150	159	143
Indonesia	3,156	510	623	633	1,193	1,239	1,253	1,229	800	1,127	2,322	2,338	5,652	10,865	15,765	18,503	18,775
Iran	1,242	1,404	2,850	4,370	4,944	12,881	14,278	16,342	17,789	20,661	20,282	19,997	18,852	16,948	17,913	7,138	5,950
Iraq	498	607	484	485	762	784	925	935	910	836	1,299	1,802	1,178	1,221	1,751	1,281	620
Kuwait	1,817	2,380	2,708	3,339	3,727	2,037	2,104	2,487	2,786	2,931	3,212	3,864	4,213	4,721	6,251	4,071	4,684
Libya	--	--	--	--	--	294	708	2,832	4,531	4,075	4,635	4,779	5,051	5,121	6,785	5,170	3.150
Nigeria	98	176	181	147	64	111	184	273	303	404	402	632	500	380	1,378	1,070	2,155
Qatar	81	82	113	514	852	1,005	1,005	1,103	1,580	1,298	2,003	1,094	1,551	1,479	4,362	4,741	4,323
Saudi Arabia	1,031	1,133	1,136	1,639	1,744	1,230	1,378	1,178	2,316	3,835	3,772	4,434	5,565	7,297	9,167	11,431	22,245
United Arab Emirate	--	--	454	600	569	756	1,045	1,038	1,251	1,199	1,090	1,371	3,796	5,164	5,431	6,863	9,075
Venezuela	7,034	5,983	6,300	6,850	7,065	7,710	7,472	7,427	9,149	9,669	9,404	11,658	12,729	12,523	14,382	14,805	14,886
TOTAL OPEC	16,748	14,247	16,994	20,972	23,928	30,692	36,970	38,987	44,922	50,507	56,230	59,754	65,042	74,002	98,918	86,910	107,923

See notes and sources at end of table

Section XIV
Table 7a

OPEC Marketed Production of Natural Gas
(Millions of Cubic Meters)

Country	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	26,686	36,267	35,039	36,470	37,560	43,170	46,290	48,400	50,640
Ecuador	73	85	81	78	80	40	80	80	100
Gabon	150	118	71	80	90	115	100	90	100
Indonesia	19,076	21,992	32,969	33,905	35,374	36,550	38,510	44,332	48,604
Iran	7,200	11,000	13,500	14,600	15,200	16,000	20,000	22,200	23,710
Iraq	680	470	590	850	1,550	3,750	5,600	6,100	4,180
Kuwait	3,675	4,035	4,376	4,200	5.730	4,780	6,840	8,160	5,230
Libya	3,350	3,710	4,600	5,200	5,600	5,000	5,500	6,000	6,200
Nigeria	1,413	2,298	2,051	2,800	3,299	3,493	3,770	4,322	3,710
Qatar	5,055	5,235	5,930	5,460	5,800	5,610	5,860	6,090	6,720
Saudi Arabia	8,950	4,380	18,200	18,800	25,200	26,800	29,100	29,800	30,500
United Arab Emirate	8,320	8,400	11,060	13,210	15,220	18,890	19,360	21,980	22,100
Venezuela	15,883	15,640	17,300	17,326	19,074	18,589	18,794	18,660	21,401
TOTAL OPEC	100,511	113,630	145,767	152,979	169,777	182,787	199,804	216,214	223,195

SOURCE: OPEC Annual Statistical Bulletin

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

Table 1. Estimated Average Number of Employees in Important Segments of the Petroleum Industry
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Table 8. Heating Equipment and Fuels for Occupied Housing Units

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1990

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	2,980	387	50	82	2,827	5,620	10,317	22,263
Alaska	10,257	308	22	1,095	237	656	1,104	13,679
Arizona	106	NA	NA	129	1,724	1,314	9,545	12,818
Arkansas	2,588	475	NA	274	2,223	2,305	5,893	13,758
California	30,972	23,547	909	1,295	11,524	13,188	62,217	143,652
Colorado	12,599	471	46	155	2,145	2,366	9,514	27,296
Connecticut	40	0	52	0	2,509	1,773	8,768	13,142
Delaware	13	767	11	3	319	223	1,508	2,844
District of Columbia	241	40	NA	0	626	184	849	1,940
Florida	514	17	285	67	2,327	7,501	30,348	41,059
Georgia	77	87	109	517	4,282	6,674	18,475	30,221
Hawaii	NA	477	0	0	NA	781	3,353	4,611
Idaho	5	0	0	20	353	1,450	3,684	5,512
Illinois	3,362	7,623	1,360	901	8,087	10,720	26,854	58,907
Indiana	512	2,253	344	389	2,681	3,481	20,013	29,673
Iowa	31	18	180	191	1,092	2,791	14,103	18,406
Kansas	8,447	1,945	355	2,197	2,526	2,606	9,155	27,231
Kentucky	1,828	3,422	71	136	2,897	3,206	12,553	24,113
Louisiana	53,700	10,500	655	1,015	5,791	5,611	8,271	85,543
Maine	21	0	0	67	73	1,243	4,249	5,653
Maryland	28	NA	253	NA	1,128	2,925	12,917	17,251
Massachusetts	9	NA	429	15	5,163	2,653	14,209	22,478
Michigan	3,880	687	811	278	6,694	5,949	26,475	44,774
Minnesota	70	NA	137	217	2,242	2,833	18,803	24,302
Mississippi	5,376	1,733	153	222	2,030	2,557	7,140	19,211
Missouri	74	NA	308	206	3,950	5,809	21,511	31,858
Montana	1,698	775	0	86	370	1,209	3,485	7,623
Nebraska	459	NA	NA	75	1,387	2,479	7,508	11,908
Nevada	205	0	0	9	872	2,229	4,312	7,627
New Hampshire	0	0	28	3	298	384	3,021	3,734
New Jersey	96	6,633	1,035	143	2,364	3,670	18,431	32,372
New Mexico	9,955	589	32	237	2,556	2,246	4,819	20,434
New York	1,583	2,100	417	142	6,627	7,977	28,056	46,902
North Carolina	61	NA	307	116	3,014	5,786	10,794	20,078
North Dakota	2,883	231	107	134	872	2,061	2,514	8,802
Ohio	5,819	7112	630	676	7,371	6,561	35,219	63,388
Oklahoma	41,857	4,506	633	1,177	5,465	4,777	8,262	66,677
Oregon	42	NA	78	NA	1,426	2,308	8,954	12,808
Pennsylvania	3,500	9,200	800	700	8,100	8,100	28,200	58,600
Rhode Island	NA	0	0	NA	958	399	2,270	3,627
South Carolina	28	NA	NA	NA	589	3,310	7,817	11,744
South Dakota	108	0	0	51	125	1,564	2,924	4,772
Tennessee	228	410	55	43	1,886	5,916	12,976	21,514
Texas	171,709	26,389	1,028	4,475	27,970	23,027	32,530	287,128
Utah	2,139	897	3	71	2,238	1,059	6,014	12,421
Vermont	NA	NA	NA	NA	109	389	2,119	2,617

See notes and sources at end of table

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1990

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Virginia	254	272	NA	NA	2,938	8,770	16,783	29,017
Washington	237	1,927	NA	121	NA	2,566	10,752	15,603
West Virginia	4,591	273	210	79	4,940	1,179	5,311	16,583
Wisconsin	NA	NA	NA	200	2,642	3,952	18,277	25,071
Wyoming	8,941	1,011	6	223	980	731	3,537	15,429
Total U.S.	394,123	117,082	11,909	18,232	161,546	199,067	646,715	1,548,674

NA Not Available

Note: The above estimates represent results of the Independent Petroleum Association of America's survey of State Labor Departments. The totals of these individual state estimates do not agree with totals shown by the Bureau of Labor Statistics in its "Employment and Earnings" publication due to confidentiality rules.

United States Service Station Population by State

	1977(a)	1980	1981	1982(a)	1983	1984	1985	1986	1987	1988	1989	1990	1991(a)
Alabama	3,562	3,198	3,051	2,001	1,889	1,827	1,722	1,660	2,229	1,198	1,176	1,173	6,500
Alaska	211	188	179	176	166	161	152	146	214	211	209	208	300
Arizona	1,656	1,486	1,418	1,204	1,137	1,099	1,036	1,006	1,241	1,222	1,210	1,206	4,010
Arkansas	2,407	2,161	2,062	1,216	1,148	1,110	1,047	999	1,357	1,338	1,325	1,321	3,764
California	14,388	12,916	12,320	10,624	10,029	9,698	9,145	8,814	9,812	9,675	9,578	9,549	13,800
Colorado	2,485	2,230	2,127	1,570	1,482	1,433	1,351	1,302	1,568	1,546	1,531	1,527	3,400
Connecticut	2,215	1,988	1,897	1,726	1,629	1,576	1,486	1,432	1,671	1,648	1,632	1,627	1,900
Delaware	435	391	373	300	283	274	258	249	279	275	272	271	450
Dist. of Col.	250	224	214	158	149	144	136	131	115	113	112	112	134
Florida	7,287	6,541	6,240	5,504	5,196	5,024	4,738	4,566	5,933	5,850	5,792	5,775	10,152
Georgia	5,066	4,546	4,337	3,077	2,905	2,809	2,649	2,553	3,273	3,228	3,196	3,187	7,000
Hawaii	415	372	355	367	346	335	316	304	355	350	347	346	392
Idaho	830	745	711	494	466	451	425	410	558	550	545	543	1,123
Illinois	7,815	7,014	6,691	5,132	4,845	4,685	4,418	4,258	4,655	3,590	3,554	3,543	10,100
Indiana	4,867	4,348	4,148	3,167	2,990	2,891	2,726	2,627	2,854	2,814	2,786	2,778	4,500
Iowa	3,424	3,074	2,933	2,064	1,948	1,884	1,777	1,712	2,020	1,992	1,972	1,966	4,169
Kansas	2,466	2,214	2,112	1,511	1,426	1,379	1,301	1,254	1,576	1,554	1,539	1,534	3,062
Kentucky	3,452	3,099	2,956	2,119	2,000	1,934	1,824	1,758	2,058	2,029	2,009	2,003	2,446
Louisiana	2,989	2,683	2,560	1,972	1,862	1,800	1,698	1,636	1,934	1,907	1,888	1,882	6,600
Maine	933	838	799	640	604	584	551	531	673	664	657	655	700
Maryland	2,465	2,213	2,111	1,877	1,772	1,713	1,616	1,557	1,846	1,820	1,802	1,797	2,450
Massachusetts	3,882	3,484	3,324	2,962	2,796	2,704	2,550	2,457	2,738	2,730	2,703	1,695	2,500
Michigan	6,572	5,899	5,628	4,130	3,899	3,770	3,555	3,426	4,164	4,106	4,065	4,053	8,500
Minnesota	3,280	2,944	2,809	2,228	2,103	2,034	1,918	1,848	2,289	2,257	2,235	2,228	3,598
Mississippi	1,962	1,761	1,680	1,191	1,124	1,087	1,025	988	1,374	1,355	1,342	1,338	6,000
Missouri	5,008	4,497	4,290	2,944	2,779	2,687	2,534	2,442	3,119	3,075	3,044	3,035	7,200
Montana	968	868	828	528	498	482	455	438	548	540	535	533	1,400
Nebraska	1,732	1,555	1,483	1,129	1,066	1,031	972	937	1,163	1,147	1,136	1,133	3,000
Nevada	641	575	549	476	449	435	410	395	441	435	431	430	450
New Hampshire	704	632	603	547	516	499	471	454	534	527	522	521	1,050
New Jersey	5,350	4,802	4,581	4,157	3,924	3,795	3,578	3,449	3,791	3,738	3,701	3,890	3,860
New Mexico	1,389	1,247	1,190	780	736	712	671	647	696	686	679	677	2,066
New York	9,245	8,298	7,917	6,328	5,973	5,777	5,447	5,250	5,982	5,898	5,839	5,822	6,800
North Carolina	5,775	5,185	4,946	3,049	2,878	2,783	2,625	2,529	3,547	3,497	3,462	3,452	10,643
North Dakota	687	617	589	422	398	385	363	350	471	464	459	458	1,245
Ohio	8,820	7,916	7,552	5,704	5,573	5,389	5,082	4,898	5,362	5,287	5,234	5,218	6,205
Oklahoma	3,063	2,748	2,622	1,599	1,509	1,460	1,376	1,327	1,705	1,682	1,665	1,660	4,700
Oregon	2,185	1,962	1,872	1,492	1,408	1,362	1,284	1,238	1,352	1,334	1,321	1,317	2,165
Pennsylvania	8,994	8,073	7,702	5,781	5,457	5,277	4,976	4,796	5,192	5,119	5,068	5,053	6,000
Rhode Island	697	625	596	515	486	470	443	427	487	476	471	470	602
South Carolina	3,001	2,694	2,570	1,666	1,573	1,521	1,434	1,382	1,833	1,807	1,789	1,784	5,200
South Dakota	861	772	736	533	503	487	459	442	556	548	543	541	1,245
Tennessee	4,090	3,671	3,502	2,490	2,351	2,273	2,143	2,066	2,491	2,456	2,432	2,425	6,000
Texas	12,747	11,442	10,916	8,213	7,753	7,497	7,070	6,814	8,568	8,448	8,364	8,339	11,000
Utah	1,149	1,031	984	842	795	769	725	699	849	827	819	817	2,137
Vermont	540	484	462	359	339	328	309	298	369	364	360	359	856
Virginia	3,992	3,583	3,418	2,652	2,503	2,421	2,283	2,200	2,740	2,702	2,675	2,667	6,000
Washington	3,005	2,696	2,572	2,146	2,026	1,959	1,847	1,780	2,003	1,975	1,955	1,949	3,500
West Virginia	1,818	1,632	1,557	1,061	1,002	969	913	880	1,013	999	989	986	2,800
Wisconsin	4,043	3,629	3,462	2,701	2,550	2,466	2,325	2,241	2,735	2,697	2,670	2,662	5,074
Wyoming	647	580	553	430	406	393	370	357	415	409	405	404	1,372
U.S. TOTAL	176,465	158,491	151,200	116,154	109,649	106,031	99,987	96,361	114,748	113,142	112,011	111,657	210,120

See notes and sources at end of table

United States Service Station Population by State

(a) Data from 1977 through 1981 represent total service stations. Data beginning in 1982 represent stations with payrolls which by Census Bureau definition, generate more than half of their sales dollars through the sale of gasoline and oil products.
Data for 1991 represent all outlets where gasoline is sold at retail; it includes service stations, convenience stores, car washes, etc.

SOURCE: 1977, 1982, and 1987: U.S. Census Bureau, Retail Trade Census
Other years: National Petroleum News estimates based on Census Bureau and other Commerce Department Data

The Following Equivalents are Derived from the use of British Thermal Unit Heat Values(a)

		Crude Petroleum (42 gal/bbl)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu ft)	Distillate Fuel Oil (42 gal/bbl)	Residual Fuel Oil (42 gal/bbl)	Liquefied Pet. Gas (42 gal/bbl)
Crude Petroleum	**42 Gal.Bbl.equals**	-	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	**Short Ton equals**	4.379	-	0.969	24.541	4.361	4.04	6.333
Bituminous Coal & Lignite	**Short Ton equals**	4.517	1.031	-	25.314	4.498	4.167	6.532
Natural Gas-Dry	**1000 Cu.Ft.equals**	0.178	0.041	0.04	-	0.178	0.165	0.258
Distillate Fuel Oil	**42 Gal.Bbl.equals**	1.004	0.229	0.222	5.628	-	0.927	1.452
Residual Fuel Oil	**42 Gal.Bbl.equals**	1.084	0.248	0.24	6.074	1.079	-	1.567
Liquefied Petroleum Gas	**42 Gal.Bbl.equals**	0.692	0.158	0.153	3.875	0.689	0.638	-
(a) B.T.U. Heat Values as used by Bureau of Mines	*1000s*	*5,800*	*25,400*	*26,200*	*1,035*	*5,825*	*6,287*	*4,011*

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248; Kerosine 5,670; Lubricants 6,064.8; Wax 5,537.3 Asphalt 6,636; Miscellaneous 5,796; Natural Gasoline 4,620 per 42 gallon barrel.

Gallon, Barrel, Pound and Ton Equivalents for Converting Measures of Crude Petroleum and Refined Petroleum Products

	Gravity at 60 F.(b)	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pounds
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	-	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	-	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

(b) For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu.Ft. = One 42 Gallon Barrel; U.S. Gallon = .833 Imperial Gallon.
Imperial Gallon = 1.2 U.S. Gallons

SOURCE: API-ASTM-IP Petroleum Measurement Tables

Heat Values for Various Energy Products

Energy Products	Units	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Coal															
Production	**Million Btu/sh. ton**	23.376	23.072	22.897	22.855	22.597	22.248	22.454	22.415	22.308	22.239	22.052	22.010	21.870	21.913
Consumption	**Million Btu/sh. ton**	23.057	22.677	22.506	22.498	22.265	22.017	22.100	21.947	21.713	21.674	21.576	21.573	21.366	21.462
Coal Coke	**Million Btu/sh. ton**	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800
Crude Oil(a)	**Million Btu/barrel**	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Petroleum Products															
Consumption	**Million Btu/barrel**	5.515	5.504	5.494	5.504	5.518	5.519	5.494	5.479	5.448	5.415	5.406	5.395	5.387	5.418
Residential & Commercial	**Million Btu/barrel**	5.387	5.377	5.358	5.383	5.389	5.382	5.471	5.468	5.409	5.392	5.286	5.261	5.203	5.238
Industrial	**Million Btu/barrel**	5.568	5.538	5.526	5.538	5.555	5.553	5.418	5.376	5.313	5.263	5.273	5.253	5.256	5.330
Transportation	**Million Btu/barrel**	5.395	5.394	5.392	5.395	5.400	5.404	5.428	5.440	5.432	5.422	5.415	5.424	5.424	5.425
Electric Utilities	**Million Btu/barrel**	6.245	6.238	6.250	6.251	6.249	6.251	6.258	6.254	6.258	6.258	6.255	6.251	6.247	6.257
LPG average	**Million Btu/barrel**	3.746	3.730	3.715	3.711	3.677	3.669	3.680	3.674	3.643	3.615	3.614	3.599	3.603	3.640
Natural Gas Plant Liquids	**Million Btu/barrel**	4.049	4.011	3.984	3.964	3.941	3.925	3.955	3.914	3.930	3.872	3.839	3.812	3.815	3.797
Natural Gas															
Production, dry	**Btu/cubic foot**	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,026	1,031	1,031	1,032	1,030
Production, wet	**Btu/cubic foot**	1,093	1,097	1,095	1,093	1,093	1,088	1,092	1,098	1,103	1,107	1,115	1,109	1,112	1,110
Consumption	**Btu/cubic foot**	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,031	1,031	1,032	1,030
Fossil Fuel Steam-Electric Power Plant Generation(b)	**Btu/kilowatthour**	10,389	10,442	10,406	10,373	10,435	10,361	10,353	10,388	10,453	10,454	10,520	10,323	10,339	10,261
Nuclear Power Plant Gen.	**Btu/kilowatthour**	10,903	11,161	11,013	11,047	10,769	10,941	10,879	10,908	11,030	11,073	10,905	10,843	10,813	10,799
Geothermal Power Plant Gen.	**Btu/kilowatthour**	21,674	21,674	21,611	21,611	21,611	21,611	21,545	21,639	21,639	21,629	21,290	21,303	21,263	21,263
Electricity Consumption	**Btu/kilowatthour**	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412

See notes and sources at end of table

Section XV
Table 4a

Heat Values for Various Energy Products

Energy Products	Units	1987	1988	1989(c)	1990(c)
Coal					
Production	**Million Btu/sh. ton**	21.922	21.822	21.765	21.827
Consumption	**Million Btu/sh. ton**	21.517	21.327	21.272	21.344
Coal Coke	**Million Btu/sh. ton**	24.800	24.800	24.800	24.800
Crude Oil(a)	**Million Btu/barrel**	5.800	5.800	5.800	5.800
Petroleum Products					
Consumption	**Million Btu/barrel**	5.403	5.411	5.410	5.449
Residential & Commercial	**Million Btu/barrel**	5.245	5.216	5.151	5.154
Industrial	**Million Btu/barrel**	5.285	5.293	5.287	5.470
Transportation	**Million Btu/barrel**	5.427	5.430	5.434	5.437
Electric Utilities	**Million Btu/barrel**	6.249	6.250	6.241	6.247
LPG average	**Million Btu/barrel**	3.659	3.652	3.683	3.628
Natural Gas Plant Liquids	**Million Btu/barrel**	3.804	3.800	3.826	3.821
Natural Gas					
Production, dry	**Btu/cubic foot**	1,031	1,029	1,031	1,031
Production, wet	**Btu/cubic foot**	1,112	1,109	1,107	1,107
Consumption	**Btu/cubic foot**	1,031	1,029	1,031	1,031
Fossil Fuel Steam-Electric Power Plant Generation(b)	**Btu/kilowatthour**	10,253	10,235	10,331	10,331
Nuclear Power Plant Gen.	**Btu/kilowatthour**	10,776	10,743	10,724	10,724
Geothermal Power Plant Gen.	**Btu/kilowatthour**	21,263	21,096	21,096	21,096
Electricity Consumption	**Btu/kilowatthour**	3,412	3,412	3,412	3,412

(a) Includes lease condensate.
(b) This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.
(c) Preliminary data.

SOURCE: U.S. Energy Information Administration, Monthly Energy Review.

Section XV
Table 5

United States Petroleum Industry Injury Frequency Rates by Industry Sector(a)

Industry Sector	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Exploration & Production	3.07	2.30	2.58	2.38	2.06	2.36	2.64	2.73	2.60	2.54	2.4
Gas Processing	3.67	4.33	3.82	3.81	3.77	3.95	3.23	3.50	3.30	3.69	3.15
Drilling	24.96	23.34	18.91	14.23	14.91	11.13	18.23	8.02	9.87	7.79	5.65
Petrochemical Mftg.	6.11	5.07	3.54	3.41	2.60	2.50	3.49	5.56	3.13	4.45	3.05
Refining	5.87	5.21	4.88	4.31	3.52	3.49	6.07	7.10	6.52	6.10	5.95
Marketing-Wholesale	4.38	4.19	3.39	3.60	3.21	3.80	3.93	3.57	4.14	3.62	3.94
Marketing-Retail	4.88	4.49	4.25	3.72	4.42	3.96	5.10	4.47	5.50	5.48	5.29
Pipeline-Liquid	4.21	4.11	3.95	3.95	3.72	3.73	3.35	4.98	3.90	3.77	3.24
Pipeline-Gas	6.10	4.99	4.83	5.43	4.39	3.58	4.16	4.80	4.33	5.11	4.3
Marine	3.08	2.00	2.42	2.85	2.70	2.51	2.21	2.70	2.25	2.34	3.42
Research & Development	2.08	2.19	2.07	2.24	1.72	1.53	1.95	2.47	2.32	1.73	2.15
Gen. Services, Engineering, and Miscellaneous	1.31	1.35	1.30	1.29	1.08	1.14	1.16	1.46	1.19	1.22	1.32
Combined Functions	3.76	2.59	4.79	3.50	3.25	NA	NA	NA	NA	NA	NA
TOTAL	4.22	3.77	3.48	3.20	2.85	2.77	3.46	3.89	3.83	3.59	3.52

(a) Covers operations subject to OSHA recordkeeping requirements only. Frequency rates represent total recordable cases per 100 fulltime workers.

SOURCE: American Petroleum Institute, Summary of Occupational Injuries and Illnesses in the Petroleum Industry.

United States Acreage Under Lease for Oil and Gas Production
(As of January 1)

	1981		1982		1983	
State	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gac	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas
Alabama	8,895,085	183,035	9,183,076	183,076	9,297,939	227,040
Alaska	3,527,540	442,540	4,131,340	451,340	5,464,155	459,060
Arizona	12,005,400	5,400	20,146,200	6,200	22,018,200	7,200
Arkansas	9,132,700	1,025,200	10,140,960	1,140,960	12,086,910	1,168,700
California	4,106,000	516,000	5,055,461	455,461	6,018,559	608,646
Colorado	31,809,000	1,103,000	30,639,000	1,209,000	31,577,000	1,334,000
Florida	3,005,200	34,200	3,715,000	35,000	3,755,000	35,000
Georgia	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Illinois	4,413,000	663,000	4,673,000	673,000	4,468,000	668,000
Indiana	8,778,810	7,828,810	8,832,960	7,832,960	8,848,070	7,838,070
Iowa	--	--	--	--	--	--
Kansas	13,222,400	3,804,000	13,794,900	3,882,000	17,000,000	7,600,000
Kentucky	4,950,000	950,000	5,225,000	975,000	5,500,000	1,000,000
Louisiana	15,962,000	4,595,000	16,100,000	7,000,000	13,550,000	6,990,000
Maryland	449,200	14,200	494,200	14,200	494,200	14,200
Michigan	12,550,000	550,000	14,074,000	574,000	14,324,000	574,000
Mississippi	7,951,400	603,400	11,926,500	626,500	11,944,100	628,500
Missouri	504,430	4,030	612,298	12,298	632,900	12,900
Montana	36,060,000	850,000	38,170,000	940,000	42,023,000	1,003,000
Nebraska	12,584,000	280,000	12,570,000	320,000	14,416,000	331,000
Nevada	17,855,800	3,800	23,554,000	4,000	31,646,600	4,600
New Mexico	30,130,000	3,330,000	30,020,000	3,720,000	31,413,000	3,655,000
New York	5,500,000	1,000,000	5,710,000	1,110,000	5,850,000	1,250,000
North Carolin	--	--	--	--	--	--
North Dakota	22,299,000	473,000	22,920,000	530,000	22,256,000	591,000
Ohio	16,527,377	2,861,927	16,520,326	2,979,826	16,448,304	3,076,994
Oklahoma	16,886,900	3,769,000	17,402,000	4,145,900	17,691,600	4,491,600
Oregon	4,001,120	1,120	4,001,000	1,000	9,001,500	1,500
Pennsylvania	17,010,160	2,625,160	17,137,160	2,731,500	17,540,160	2,851,770
South Dakota	7,457,500	19,500	8,120,000	21,000	7,027,000	33,000
Tennessee	6,522,160	22,160	8,327,257	27,257	8,528,500	28,500
Texas	59,974,600	10,900,000	64,350,000	11,750,000	64,723,000	12,475,000
Utah	29,519,000	345,000	30,900,000	364,000	32,014,000	400,000
Virginia	3,053,150	81,936	3,456,940	90,555	3,158,906	112,838
West Virginia	13,934,000	7,160,000	14,134,000	7,325,000	13,447,000	7,528,000
Wyoming	38,765,000	2,200,000	36,850,000	2,300,000	34,227,000	2,445,000
TOTAL U.S.(a)	479,531,532	58,144,418	522,518,628	73,060,033	538,390,603	69,444,118

See notes and sources at end of table

Section XV
Table 6a

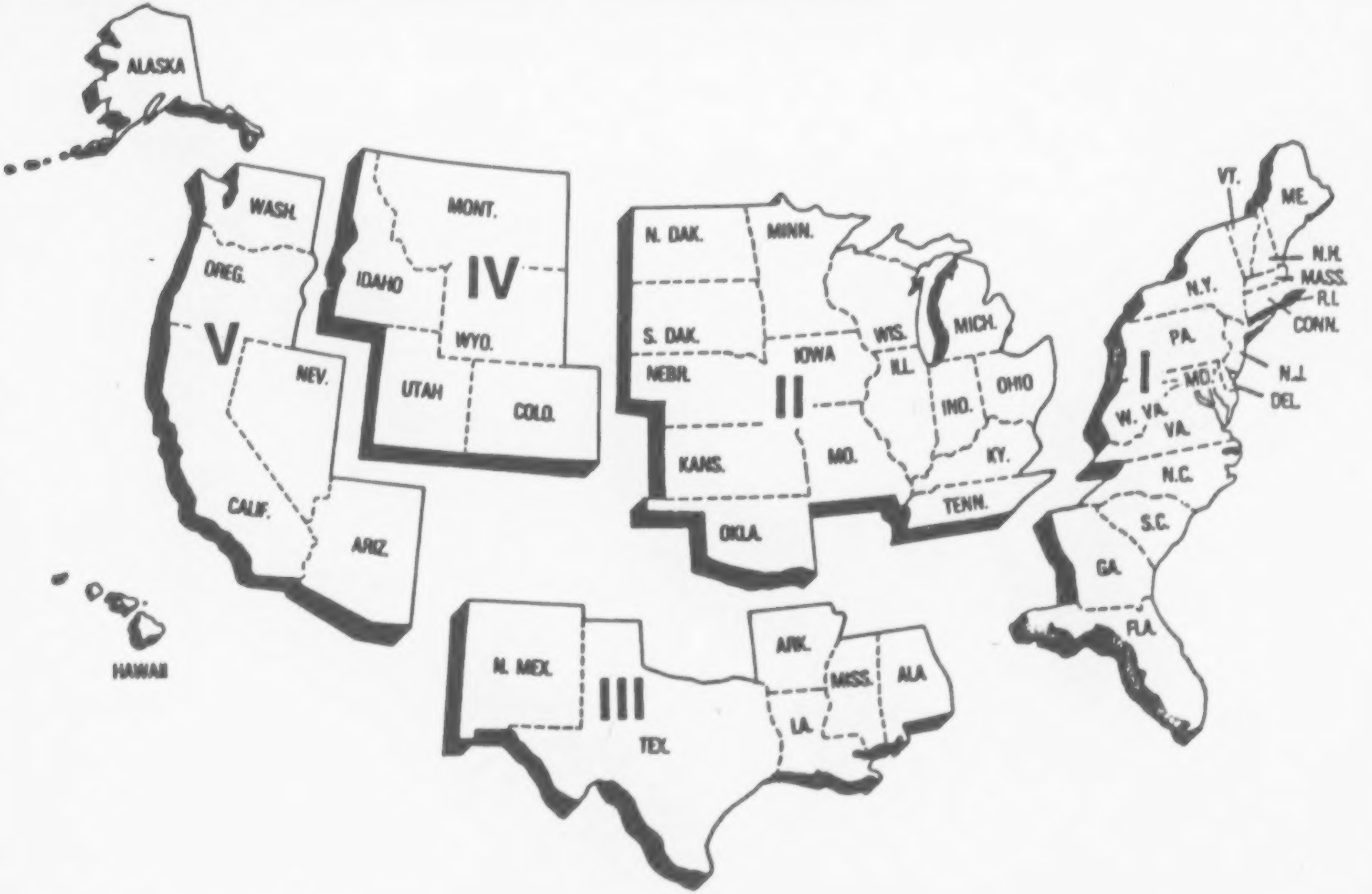
United States Acreage Under Lease for Oil and Gas Production
(As of January 1)

	1984		1985		1986	
State	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas
Alabama	9,416,034	276,428	9,182,000	316,000	8,010,000	371,000
Alaska	10,574,539	521,983	11,240,000	665,000	12,582,000	682,000
Arizona	23,730,680	6,080	23,731,000	6,000	23,747,000	6,000
Arkansas	13,300,000	1,200,000	12,998,000	1,215,000	10,694,000	1,205,000
California	8,565,791	433,791	9,250,000	500,000	5,810,000	428,000
Colorado	35,531,520	1,447,520	35,531,000	1,509,000	35,622,000	1,556,000
Florida	5,130,080	36,280	2,637,000	37,000	2,639,000	37,000
Georgia	1,894,127	0	2,800,000	0	2,291,000	0
Idaho	870,709	0	913,000	0	600,000	0
Illinois	4,629,000	679,000	4,735,000	706,000	5,900,000	880,000
Indiana	8,963,125	7,925,600	8,963,000	7,926,000	8,000,000	6,295,000
Iowa	0	0	5,000,000	0	5,000,000	0
Kansas	18,672,133	8,517,133	19,750,000	10,595,000	16,380,000	8,795,000
Kentucky	5,525,000	1,025,000	6,350,000	1,210,000	5,458,000	1,089,000
Louisiana	13,672,466	6,997,000	14,500,000	7,842,000	14,080,000	7,609,000
Maryland	524,200	14,200	314,000	17,000	316,000	16,000
Michigan	14,576,720	608,720	14,756,000	628,000	14,931,000	653,000
Mississippi	11,478,900	629,140	10,402,000	700,000	9,500,000	710,000
Missouri	712,900	12,900	713,000	13,000	712,000	12,000
Montana	44,050,200	1,054,400	44,050,000	1,085,000	44,111,000	1,105,000
Nebraska	13,411,080	326,080	13,411,000	334,000	13,508,000	340,000
Nevada	29,852,800	4,800	29,853,000	5,000	28,876,000	5,000
New Mexico	42,524,880	3,725,280	42,621,000	3,822,000	42,688,000	3,878,000
New York	5,900,000	2,000,000	5,600,000	2,000,000	5,610,000	2,010,000
North Carolin	200,000	0	457,000	0	500,000	0
North Dakota	23,299,820	617,120	23,300,000	643,000	23,324,000	658,000
Ohio	16,443,251	3,216,051	15,209,000	3,329,000	14,886,000	3,420,000
Oklahoma	18,990,000	4,025,000	19,200,000	7,211,000	20,435,000	7,675,000
Oregon	7,001,600	1,600	5,025,000	25,000	4,460,000	60,000
Pennsylvania	17,672,160	2,940,610	17,997,000	3,047,000	18,042,000	3,200,000
South Dakota	10,877,340	1,032,640	8,120,000	36,000	8,123,000	37,000
Tennessee	9,830,000	50,715	3,827,000	12,000	3,115,000	18,000
Texas	70,300,000	14,938,000	68,374,000	16,500,000	60,670,000	14,640,000
Utah	38,229,686	487,686	38,230,000	504,000	38,258,000	518,000
Virginia	3,376,396	122,700	3,236,000	147,000	2,586,000	316,000
West Virginia	13,757,000	7,693,000	13,408,000	7,807,000	12,673,000	7,807,000
Wyoming	38,999,100	2,598,400	38,999,000	2,659,000	39,064,000	2,697,000
TOTAL U.S.(a)	592,483,237	69,018,667	587,646,000	83,051,000	566,930,000	78,728

(a) Totals may not add due to the addition of miscellaneous acreage for which detailed information is not available.

SOURCE: IPAA–The Oil Producing Industry in Your State, Annuals.

Petroleum Administration for Defense (PAD) Districts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GA.
FLA.

Heating Equipment and Fuels for Occupied Housing Units
(Thousands)

	1950	1960	1970	1980	1983	1985	1987	1989
Total occupied units	42,826	53,024	63,445	80,390	84,638	88,425	90,888	93,883
Heating Equipment								
Warm air furnace	11,508 (a)	17,378 (a)	27,515 (a)	39,279	44,320	47,256	49,854	50,271
Heat Pumps	(a)	(a)	(a)	2,835	2,171	3,031	3,688	6,875
Steam or Hot Water	10,071	11,990	13,211	13,859	13,772	13,929	13,855	13,566
Floor, Wall or Pipeless furnace	(a)	6,088	5,552	4,693	5,977	5,496	5,450	4,806
Built-in electric units	--	664	3,236	6,370	6,207	5,733	6,092	6,658
Room heaters with flue	15,399 (b)	11,183 (b)	7,209	6,098	3,438	2,938	2,629	2,879
Room Heaters without flue	5,268	5,218	3,558	2,736	2,926	2,639	2,346	2,061
Fireplaces, Stoves or Heaters (c)	(b)	(b)	2,766	3,977	5,152	6,140	5,583	5,803
None	581	503	398	541	677	529	659	663
								93,582
House heating fuel								
Utility gas	11,387	22,851	35,014	42,658	46,700	45,328	45,959	47,395
Fuel oil, Kerosene, etc.	9,686	17,158	16,473	14,655	13,031	13,505	13,453	13,542
Electricity	283	933	4,876	14,768	15,684	18,361	20,608	23,060
Bottled, tank or LPgas	787	2,686	3,807	4,535	3,869	3,584	3,659	3,664
Wood or other fuel	4,855	2,460	1,060	2,729	4,245	6,622	5,782	5,024
Coal or Coke	14,828	6,456	1,821	504	432	447	407	335
None	999	478	395	541	677	529	659	863
Cooking Fuel								
Electricity	6,403	16,351	25,768	41,906	NA	49,067	51,629	54,090
Utility gas	22,084	27,296	31,244	32,375	NA	33,794	33,670	34,487
Bottled, tank or LPgas	3,417	6,491	5,314	5,569	NA	4,815	4,870	4,406
Other fuel	10,796	2,603	908	398	NA	305	330	346
None	124	280	213	142	NA	453	369	554

(a) "Floor, wall or pipeless furnace" and "heat pumps" included in "Warm air furnace".
(b) "Fireplace, stoves or portable heaters" included in "Room heaters with flue".
(c) Portable Heaters.

SOURCE: U.S. Bureau of the Census, Census of Housing, 1960 and 1980
Current Housing Reports, Annual Housing Survey 1983, American Housing Survey, 1985-1989.

SELECTED DEFINITIONS

BARREL--unit of volumetric measure. One barrel equals 42 U.S. gallons.

CRUDE OIL--technically defined as a mixture of hydrocarbons that exists in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities.

CRUDE OIL, PRODUCTION--the volume of liquids statistically defined as crude oil, which is produced from oil reservoirs during given periods of time. The amount of such production for a given period is generally established by measurement of volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

CRUDE OIL, PROVED RESERVES--Proved reserves of crude oil as of December 31 of any given year are the estimated quantities of all liquids statistically defined as crude oil, which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by either actual production or conclusive formation tests. The area of an oil reservoir considered proved includes: (1) that portion delineated by drilling and defined by gas-oil or oil-water contacts, if any; and (2) the immediately adjoining portions not yet drilled but which can be reasonably judged as economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurence of hydrocarbons controls the lower proved limit of the reservoir.

Reserves of crude oil which can be produced economically through application of improved recovery techniques (such as fluid injection) are included in the "proved" classification.

Estimates of proved crude oil reserves do not include the following: (1) oil that may become available from known reservoirs but is reported separately as "indicated additional reserves"; (2) natural gas liquids (including lease condensate); (3) oil the recovery of which is subject to reasonable doubt because of uncertainty as to geology, reservoir characteristics, or economic factors; (4) oil that may occur in untested prospects; and (5) oil that may be recovered from oil shales, coal, gilsonite, and other such sources.

DEVELOPMENT WELL--In general, a well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

DISTILLATE FUEL OIL--A general classification for one or more distilled petroleum fractions used for domestic heating and industrial burners, or for power generation in compression ignition engines. These fractions are No. 1 Fuel Oil, No. 2 Fuel Oil, Diesel Fuel and No. 4 Fuel Oil.

DRY HOLE--An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

EXPLORATORY WELL--A well drilled (1) to find and produce oil or gas in an unproved area; (2) to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir; or (3) to extend the limits of a known oil or gas reservoir.

GAS WELL--A well completed for production of natural gas from one or more gas zones or reservoirs. Such wells contain no completions for the production of crude oil.

KEROSINE--A refined petroleum distillate conforming to the requirements of ASTM D 3699. Two classifications are No. 1-K and No. 2-K.

KEROSINE-TYPE JET FUEL (Jet A)-A quality kerosine product covered by ASTM Spec D 1655. Used primarily as fuel for commercial turbojet and turboprop aircraft engines. A relatively low freezing point distillate of the kerosine type.

LIQUEFIED REFINERY GAS (LRG)--Includes liquefied refinery gases that were fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state and represent final products. Excludes still gases used for chemical or rubber manufacture which are reported as petrochemical feedstocks and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquid refinery gases are reported in the following categories for use as petrochemical feedstock, for other uses or both; ethane and or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane.

LUBRICATING OILS--Includes all grades of paraffinic and napthenic lubricating oil stocks, from light distillate spindle oils to residual cylinder stocks. Oils used for grease-making are also classified as lubricating oils.

MOTOR GASOLINE--A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, obtained by blending appropriate refinery streams to form a fuel suitable for use in spark ignition engines. Includes all refinery products within the gasoline range (ASTM spec.D439) that are to be marketed as motor gasoline without further processing i.e. any refinery operation except mechanical blending. Includes both leaded and unleaded grades. Also includes finished components in the gasoline range which will be used for blending or compounding finished gasoline

NAPHTHA-TYPE JET FUEL--(Jet B) A fuel in the heavy naphtha boiling range covered by ASTM Spec. D 1655 and meeting military Spec. MIL-T-5624 (JP-4). Used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram jet and petroleum rocket fuels.

SELECTED DEFINITIONS

NATURAL GAS--A mixture of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with oil in natural underground reservoirs at reservoir conditions. Natural gas may be subclassified as follows: Associated Gas, Dissolved Gas, and Non-associated Gas.

NATURAL GAS, PRODUCTION--Statistics pertaining to natural gas production represent volumes of gas produced from natural oil and gas reservoirs during given periods of time with adjustments (where applicable) to reflect (1) the volume of gas returned to natural reservoirs, and (2) the reduction of volume resulting from the removal of natural gas liquids and nonhydrocarbon gases. The volume of natural gas withdrawn from underground storage facilities is not included in natural gas production statistics.

NATURAL GAS, PROVED RESERVES--Proved reserves of natural gas as of December 31 of any given year are the estimated quantities of natural gas which geological and engineering data demonstrate with reasonable certainty to be recoverable in the future from known natural oil and gas reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by either actual production or conclusive formation tests. The area of a reservoir considered proved includes: (1) that portion delineated by drilling and defined by gas-oil, gas-water or oil-water contacts; and (2) the adjoining portions not yet drilled but which can be reasonably judged economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons controls the lower proved limit of the reservoir.

Reserve estimates are prepared for total recoverable natural gas, nonassociated gas, and associated-dissolved gas. Estimates do not include (1) gaseous equivalents of natural gas liquids expected to be recovered from reservoir natural gas as it is produced; (2) natural gas being held in underground storage; or (3) nonhydrocarbon gases.

NATURAL GAS LIQUIDS--Those portions of reservoir gas which are liquefied at the surface in lease separators, field facilities, or gas processing plants. Natural gas liquids include but are not limited to: ethane, propane, butanes, pentanes, natural gasoline, and condensate.

NEW-FIELD WILDCAT--A well located on a structural feature or other type of trap which has not previously produced oil or gas.

OFFSHORE--Term defined as that geographic area which lies seaward of the coastline. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking seaward limit of inland water.

OFFSHORE WELL--A well which is bottomed at, or produces from, a point which lies seaward of the coastline. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland water. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification is used.

OIL WELL--A well completed for the production of crude oil from at least one oil zone or reservoir.

PAD DISTRICTS (Petroleum Administration for Defense Districts)--a geographic aggregation of the 50 states and the District of Columbia into five districts, originally designed by the Petroleum Administration for Defense in 1950 for purposes of administration. These are an outgrowth of the World War II Petroleum Administration for War Districts.

PETROLEUM PRODUCTS--A generic term used to describe products obtained from distilling and processing crude oil, unfinished oils natural gas liquids, blend stocks and other miscellaneous hydrocarbon compounds.

PETROLEUM REFINERY--A complex installation of equipment designed to manufacture finished petroleum products from crude oil and other liquid hydrocarbons.

PRIMARY STOCKS OF PETROLEUM--Represents stocks held at refineries, natural gas processing plants, bulk terminals, pipelines and leases. Excludes stocks held in secondary and tertiary (consumer) storage.

PROCESSING GAIN--The volumetric amount by which total refinery output is greater than input. This difference is due to the processing of crude oil into products which in total, have a lower specific gravity than the crude oil processed. Therefore, in terms of volume (barrels), the total output of products is greater than input.

PROCESSING LOSS--The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total have a higher specific gravity than the crude oil processed and thus an output in barrels, smaller than the input.

PRODUCT SUPPLIED FOR DOMESTIC USE--Approximately represents consumption of petroleum products in that it measures the disappearance of these products from primary sources, i.e. refineries, natural gas processing plants, blending operations, pipelines, and bulk terminals. It includes losses and fuels used in the industry.

RESIDUAL FUEL OIL--General classification for fuels obtained as liquid still bottoms from the distillation of crude, used alone or in blends with heavy liquids from other refinery process operations. Includes Grades No.5 (light and heavy), No.6 (including heavy grade, so called Bunker C oil), and Navy Special fuel oil.

SELECTED DEFINITIONS

SERVICE WELL--A well drilled or completed for the purpose of supporting production in an existing field.

STRATEGIC PETROLEUM RESERVE (SPR)--Petroleum inventories (currently only crude oil) held in Government-owned underground storage for use during periods of supply interruptions.

STRATIGRAPHIC TEST--A drilling effort, geologically directed, to obtain information pertaining to a specific geological condition that might lead toward the discovery of an accumulation of hydrocarbons. Such wells are customarily drilled without the intention of being completed for hydrocarbon production. This classification also includes tests identified as core tests and all types of expendable holes related to hydrocarbon exploration.

UNFINISHED OILS--Includes all oils requiring further processing, i.e., any refinery operation except mechanical blending.

WELL--A hole drilled in the earth for the purpose of (1) finding or producing crude oil or natural gas; or (2) providing services related to the production of crude oil or natural gas.

CURRENT SOURCE LISTING FOR THE BASIC PETROLEUM DATA BOOK

Section I
U.S. Department of Energy, Energy Information Administration, Annual Energy Outlook (202)586-8800.

U.S Department of Energy, Energy Information Administration, Monthly Energy Review (202)586-8800.

U.S. Department of Commerce, Bureau of the Census, Current Population Reports (202)763-5002.

British Petroleum, BP Statistical Review of World Energy (212)887-9300.

Section II
U.S. Department of Energy, Energy Information Administration, Crude Oil, Natural Gas and Natural Gas Liquids Reserves (202)586-6090.

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U.S. Department of Interior, U.S. Geological Survey, Circular 860 (703)860-7549.

Section III
American Petroleum Institute, Quarterly Completion Reports (202)682-8518

Society of Exploration Geophysicists, Geophysical Activity Annual Report (918)493-3516.

American Association of Petroleum Geologists, North American Drilling Activity (918)584-2555.

American Petroleum Institute, Joint Association Survey (202)682-8528.

Oil and Gas Journal (918)835-3161.

Hughes Tool Company (713)924-2413.

Reed Tool Company, Annual Rotary Rig Census (713)924-5200.

U.S. Department of Energy, Energy Information Administration, Natural Gas Annuals (202)586-6077.

World Oil Magazine (713)529-4301.

Interstate Oil Compact Commission and National Stripper Well Association (405)525-3556.

Section IV
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Central Intelligence Agency, International Energy Statistical Review. Inquiries directed to DOCEX Project (202)287-9527.

National Stripper Well Association and Interstate Oil Compact Commission (405)525-3556.

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U.S. Department of Energy, Energy Information Administration, Petroleum Supply Monthlies (202)586-8800.

U.S. Department of Energy, Energy Information Administration, Petroleum Marketing Monthly (202)586-5214.

U.S. Department of Transportation, Federal Highway Administration, "Monthly Motor Fuel Reported by States" (202)426-0170.

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U.S. Department of Interior, U.S. Geological Survey, Minerals Management Service (202)343-3421.

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Section XII
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Association of Oil Pipelines (202)331-8228.

U.S. Department of Transportation, Coast Guard, "Polluting Incidents In and Around U.S. Waters" (202)267-2229.

U.S. Department of Transportation, Federal Highway Administration, "Highway Statistics" (202)426-0160.

Section XII (continued)
Oak Ridge National Laboratory, Light-Duty Vehicle MPG and Market Shares Report (615) 574-5284

Section XIII
U.S. Department of Energy, Energy Information Administration, Crude Oil, Natural Gas and Natural Gas Liquids Reserves (202)586-6090.

Oil and Gas Journal "Worldwide Report" issues (918)835-3161.

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BASIC PETROLEUM DATA BOOK

Petroleum Industry Statistics

Volume XII, Number 2
May 1992

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Section 1
Table 1

Annual Supply/Disposition Summary of Total Energy in the United States (Quadrillion BTU)

SUPPLY/DISPOSITION	1990	1995	2000	2005	2010
Production					
Petroleum	17.9	16.7	15.4	15.0	14.8
Natural Gas(a)	18.3	19.0	19.9	20.7	20.1
Coal	22.5	23.0	24.3	26.5	31.2
Nuclear	6.2	6.5	7.0	7.1	6.9
Renewable Energy(b)	6.6	7.5	8.5	9.5	10.4
Total Production	71.5	72.7	75.1	78.8	83.4
Imports					
Petroleum (incl. SPR)	17.0	19.7	22.5	24.7	26.4
Natural Gas	1.5	2.3	2.8	3.2	3.4
Coal/Other (-indicates exports)(c)	0.1	0.6	0.8	1.0	1.2
Total Imports	18.5	22.6	26.0	28.9	31.0
Exports					
Petroleum	1.8	1.6	1.7	1.7	1.8
Coal	2.8	3.2	3.7	4.6	6.1
Total Exports	4.6	4.8	5.4	6.4	7.9
Consumption					
Petroleum Products	33.8	35.0	36.4	38.2	39.6
Natural Gas	19.4	21.2	22.6	23.8	23.4
Coal	19.1	19.9	20.7	22.0	25.2
Nuclear Power	6.2	6.5	7.0	7.1	6.9
Renewable Energy/Other(d)	6.6	7.9	9.0	10.1	11.0
Total Consumption	85.0	90.5	95.6	101.2	106.1
Discrepancy(e)	0.9	0.2	0.1	0.0	-0.2
Prices (1990 $ per unit)					
World Oil Price ($/bbl)(f)	21.78	20.80	26.40	30.50	33.40
Nat Gas Wellhead Price ($/Mcf)	1.72	2.02	2.72	3.70	4.65
Avg Coal Minemouth Price ($/ton)	21.76	24.01	26.64	28.71	31.63

(a) Dry natural gas.
(b) Includes utility and nonutility generation of hydroelectric power, geothermal, wood, waste, wind, photovoltaic and solar thermal sources for electricity generation.
(c) Includes coke, net coal coke imports, and net electricity imports (fuel input equivalent).
(d) Same as footnote (b), plus net electricity imports and net coal coke imports.
(e) Balancing item that includes stock changes, gains, losses, and unaccounted for supply.
(f) Represents the cost of imported crude oil to U.S. refiners

SOURCE: U.S. Department of Energy, Energy Information Administration, Annual Energy Outlook 1992.

United States Consumption of Energy by Source and End-Use Sector
(Quadrillion BTU)

SECTOR AND FUEL	1990	1995	2000	2005	2010
Residential	10.22	11.10	11.33	11.68	12.06
Distillate and LPG	1.46	1.35	1.08	0.91	0.80
Natural Gas	4.50	5.01	4.94	4.85	4.71
Other residential(a)	0.15	0.11	0.09	0.07	0.06
Electricity	3.14	3.51	3.70	3.94	4.18
Renewables	0.96	1.12	1.51	1.91	2.31
Commercial	6.68	7.34	7.83	8.30	8.82
Distillate	0.51	0.53	0.49	0.43	0.40
Natural Gas	2.70	3.03	3.14	3.22	3.29
Other Commerical(b)	0.59	0.57	0.63	0.66	0.70
Electricity	2.87	3.20	3.56	3.98	4.44
Industrial	25.25	26.36	27.29	28.12	29.11
Distillate	1.08	1.28	1.31	1.34	1.39
Liquefied Petroleum Gas	1.49	1.87	1.97	2.14	2.33
Petrochemical Feedstocks	1.09	1.15	1.26	1.40	1.55
Residual Fuel	0.58	0.73	0.68	0.68	0.70
Natural Gas	8.71	9.08	9.30	9.13	8.90
Coal	2.77	2.69	2.67	2.68	2.79
Electricity	3.20	3.43	3.90	4.43	4.97
Renewables	2.01	2.25	2.32	2.40	2.50
Other(c)	4.31	3.88	3.89	3.94	3.98
Transportation	22.07	23.22	24.40	26.01	27.37
Motor Gasoline	13.58	13.98	14.41	15.02	15.55
Distillate	3.74	4.21	4.54	4.97	5.39
Jet Fuel	3.13	3.33	3.58	3.94	4.20
Other Transportation(d)	0.86	0.94	1.03	1.14	1.20
Residual Fuel	0.77	0.76	0.85	0.93	1.02
Electric Utilities	30.02	32.63	35.94	39.41	42.39
Petroleum	1.25	1.20	1.63	1.84	1.61
Natural Gas	2.88	3.39	4.49	5.86	5.71
Coal	16.16	17.12	18.04	19.37	22.54
Nuclear	6.19	6.54	6.97	7.06	6.92
Renewable Energy/Other(e)	3.54	4.37	4.81	5.29	5.62

(a) Includes kerosene and steam coal.
(b) Includes kerosene, motor gasoline, residual fuel and renewables.
(c) Includes lubricants, waxes, kerosene, motor gasoline and hydropower.
(d) Includes liquefied petroleum gas, lubricants, waxes, electricity, kerosene, natural gas and renewables.
(e) Includes renewable facilities such as hydropower, geothermal power, wood, waste, solar power and wind power. Also includes net electricity imports.

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1992.

Selected United States Economic, Demographic, and Energy Indicators

Year	Gross Domestic Product (Billion $ 1987)(a)	Population (Millions)	Gross Energy Input(b) (Quadrillion Btu)	Gross Energy Per Dollar of 1982 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	1,067	144.1	33.0	30.9	229.0
1948	1,109	146.6	33.9	30.6	231.2
1949	1,109	149.2	31.5	28.4	211.1
1950	1,204	152.3	34.0	28.2	223.2
1951	1,328	154.9	36.8	27.7	237.6
1952	1,380	157.6	36.5	26.4	231.6
1953	1,435	160.2	37.6	26.2	234.7
1954	1,416	163.0	36.3	25.6	222.7
1955	1,495	165.9	39.7	26.6	239.3
1956	1,526	168.9	41.7	27.3	246.9
1957	1,555	172.0	41.7	26.8	242.4
1958	1,539	174.9	41.7	27.1	238.4
1959	1,629	177.8	43.1	26.5	242.4
1960	1,665	180.7	44.6	26.8	246.8
1961	1,709	183.8	45.3	26.5	246.5
1962	1,799	186.5	47.4	26.3	254.2
1963	1,873	189.2	49.3	26.3	260.6
1964	1,973	191.8	51.2	25.9	266.9
1965	2,088	194.3	53.3	25.5	274.3
1966	2,208	196.6	56.4	25.5	286.9
1967	2,271	198.7	58.3	25.7	293.4
1968	2,366	200.7	61.7	26.1	307.4
1969	2,423	202.7	65.0	26.5	320.7
1970	2,416	205.1	67.1	27.8	327.2
1971	2,485	207.7	68.3	27.5	328.8
1972	2,609	209.9	71.6	27.4	341.1
1973	3,269	212.0	74.3	22.7	350.5
1974	3,248	213.9	72.5	22.3	338.9
1975	3,222	216.0	70.5	21.9	326.4
1976	3,381	218.4	74.4	22.0	340.7
1977	3,533	220.2	76.3	21.6	346.5
1978	3,704	222.6	78.1	21.1	350.9
1979	3,797	225.6	78.9	20.8	349.7
1980	3,776	227.7	76.0	20.1	333.8
1981	3,843	229.3	74.0	19.3	322.7
1982	3,760	231.5	70.8	18.8	305.8
1983	3,907	234.0	70.5	18.1	301.3
1984	4,149	236.2	74.1	17.9	313.7
1985	4,280	238.7	73.9	17.3	309.6
1986	4,405	241.1	74.2	16.9	307.8
1987	4,540	246.3	76.8	16.9	311.8
1988	4,719	247.4	80.2	17.0	324.2
1989	4,837	249.9	81.3	16.8	325.3
1990	4,885	248.7	81.3	16.6	326.9
1991	4,849	252.2	81.5	16.8	323.2

See notes and sources at end of table

Selected United States Economic, Demographic, and Energy Indicators

(a) Data prior to 1973 is Gross National Product in $1982
(b) Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal) including imports of their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

SOURCE: 1947-1972: U.S. Bureau of Mines, Press Release, March 14, 1977
1973-1991: U.S. Department of Commerce, U.S. Bureau of Census, Current Population Reports.
U.S. Energy Information Administration, Monthly Energy Review.

United States Petroleum Supply/Disposition Balance
(Millions of Barrels Per Day)

SUPPLY/DISPOSITION	1990	1995	2000	2005	2010
World Oil Price(a) (1990$/bbl.)	21.78	20.80	26.40	30.50	33.40
Production	9.68	9.14	8.51	8.39	8.31
Crude and Condensate	7.35	6.68	5.91	5.62	5.51
Alaska	1.77	1.33	0.93	0.69	0.78
Lower 48	5.58	5.34	4.98	4.93	4.73
Natural Gas Plant Liquids	1.56	1.56	1.63	1.70	1.64
Other(b)	0.76	0.90	0.96	1.07	1.16
Imports (incl. SPR)	8.02	9.32	10.58	11.67	12.50
Crude	5.89	6.39	7.68	8.59	8.71
Refined products	2.12	2.93	2.90	3.08	3.79
Exports	0.85	0.77	0.78	0.82	0.86
Crude	0.11	0.10	0.08	0.07	0.08
Refined products	0.75	0.68	0.70	0.75	0.78
Net Storage Withdrawals(c)					
Crude and Products (excl. SPR)	-0.09	-0.03	-0.03	-0.04	-0.02
SPR Fill Rate(-)	-0.02	-0.05	-0.05	0.00	0.00
Petroleum Product Supplied	16.99	17.80	18.43	19.40	20.13
Motor Gasoline	7.23	7.47	7.68	8.04	8.32
Jet fuel	1.52	1.62	1.74	1.92	2.05
Distillate Fuel Oil	3.02	3.31	3.40	3.52	3.68
Residual Fuel Oil	1.23	1.20	1.35	1.48	1.42
Other(d)	3.98	4.20	4.26	4.45	4.66

(a) The cost of imported crude oil to U.S. refiners.
(b) Includes refinery processing gain, and other hydrocarbons and alcohol.
(c) A nagative (-) result represents an increase to inventories and a decrease to total supply.
(d) Includes crude oil supplied as product, unfinished oils, and all other finished petroleum products not listed here.

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1992.

Section I
Table 5

United States Price of Energy by Source and End-Use Sector
(1990 Dollars per Million BTU)

SECTOR AND FUEL	1990	1995	2000	2005	2010
Residential					
Distillate	7.66	7.11	8.18	8.95	9.48
Liquefied Petroleum Gas	10.02	9.13	10.51	11.52	12.27
Natural Gas	5.60	6.02	6.72	7.71	8.66
Electricity	22.96	23.10	23.24	23.94	24.49
Commercial					
Distillate	5.67	5.09	6.17	6.96	7.50
Natural Gas	4.86	5.17	5.87	6.85	7.81
Electricity	21.67	21.35	21.09	21.32	21.65
Industrial					
Distillate	5.63	5.02	6.09	6.86	7.39
Liquefied Petroleum Gas	5.71	5.36	6.73	7.72	8.45
Residual Fuel	2.69	3.24	4.22	4.93	5.42
Natural Gas	2.94	3.28	3.98	4.96	5.91
Steam Coal	1.50	1.70	1.83	1.97	2.16
Metallurgical Coal	1.78	1.96	2.17	2.33	2.56
Electricity	14.41	14.40	14.88	15.63	16.08
Transportation					
Distillate	8.51	8.70	9.77	10.53	11.06
Jet Fuel	5.69	4.82	5.92	6.71	7.26
Motor Gasoline	9.34	9.50	10.87	11.92	12.61
Residual Fuel	3.03	3.22	4.04	4.62	4.99
Electric Utilities					
Coal	1.45	1.59	1.74	1.86	2.00
Heavy Oil	3.28	3.76	4.62	5.32	6.07
Natural Gas	2.33	2.51	3.27	4.39	5.44

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1992.

United States Total Gross Consumption of Energy Resources by Major Sources(a)
(Trillion Btu)

Year	Coal(b)	Petroleum(c)	Natural Gas Dry	Hydro-power(d)	Nuclear Power(d)	Total Consumption(e)
1947	15,824	11,367	4,518	1,326	-	33,035
1948	14,897	12,557	5,033	1,393	-	33,880
1949	12,631	12,119	5,289	1,449	-	31,488
1950	12,913	13,489	6,150	1,440	-	33,992
1951	13,225	14,848	7,248	1,454	-	36,775
1952	11,868	15,334	7,760	1,496	-	36,458
1953	11,893	16,098	8,156	1,439	-	37,586
1954	10,195	16,132	8,548	1,388	-	36,263
1955	11,540	17,524	9,232	1,407	-	39,703
1956	11,752	18,627	9,834	1,487	-	41,700
1957	11,168	18,570	10,416	1,551	1	41,706
1958	9,849	19,214	10,995	1,636	2	41,696
1959	9,810	19,747	11,990	1,591	2	43,140
1960	10,140	20,067	12,699	1,657	6	44,569
1961	9,906	20,487	13,228	1,680	18	45,319
1962	10,189	21,267	14,121	1,821	24	47,422
1963	10,714	21,950	14,843	1,767	34	49,308
1964	11,264	22,386	15,648	1,907	35	51,240
1965	11,908	23,242	16,097	2,058	38	53,343
1966	12,495	24,395	17,392	2,073	57	56,412
1967	12,256	25,335	18,250	2,344	80	58,265
1968	12,659	27,052	19,580	2,342	130	61,763
1969	12,733	28,421	21,020	2,659	146	64,979
1970	12,698	29,537	22,029	2,650	229	67,143
1971	12,043	30,570	22,469	2,862	404	68,348
1972	12,461	32,966	22,699	2,929	577	71,643
1973	12,971	34,840	22,512	3,010	910	74,282
1974	12,663	33,455	21,732	3,309	1,272	72,543
1975	12,663	32,731	19,948	3,219	1,900	70,546
1976	13,584	35,175	20,345	3,065	2,111	74,362
1977	13,922	37,122	19,931	2,515	2,702	76,288
1978	13,765	37,965	20,000	3,142	3,024	78,089
1979	15,039	37,123	20,666	3,141	2,776	78,898
1980	15,423	34,202	20,394	3,118	2,739	75,955
1981	15,907	31,931	19,928	3,105	3,008	73,990
1982	15,322	30,231	18,505	3,572	3,131	70,848
1983	15,894	30,054	17,357	3,899	3,203	70,524
1984	17,070	31,051	18,507	3,757	3,553	74,101
1985	17,478	30,922	17,834	3,363	4,149	73,945
1986	17,262	32,196	16,708	3,385	4,471	74,237
1987	18,008	32,865	17,745	3,068	4,906	76,845
1988	18,846	34,222	18,552	2,639	5,661	80,195
1989	18,944	34,211	19,384	2,884	5,677	81,348
1990	19,122	33,553	19,304	2,946	6,161	81,293
1991	18,807	32,720	20,156	3,082	6,543	81,508

See notes and sources at end of table

United States Total Gross Consumption of Energy Resources by Major Sources(a)
(Trillion Btu)

(a) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.
(b) Includes anthracite, bituminous, lignite coal, and imported coke.
(c) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.
(d) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.
(e) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West: "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Department of the Interior: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: U.S. Energy Information Administration, Monthly Energy Review, March 1992

United States Total Production of Energy Resources by Major Source
(Trillion Btu)

Year	Coal(a)	Petroleum	Natural Gas(b)	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs(c)
1947	17,975	10,771	5,012	1,296	--	35,054
1948	17,158	11,717	5,615	1,369	--	35,859
1949	12,557	10,683	5,911	1,425	--	30,576
1950	14,647	11,449	6,841	1,415	--	34,352
1951	15,066	13,037	8,106	1,424	--	37,633
1952	13,262	13,282	8,705	1,466	--	36,715
1953	12,767	13,671	9,116	1,413	--	36,967
1954	11,001	13,427	9,488	1,360	--	35,276
1955	12,745	14,445	10,532	1,360	--	39,082
1956	13,747	15,344	11,252	1,435	--	41,778
1957	13,444	15,346	11,885	1,422	1	42,098
1958	11,201	14,154	12,244	1,592	2	39,193
1959(d)	11,105	14,662	13,361	1,551	2	40,681
1960	11,140	14,664	14,135	1,608	6	41,553
1961	10,751	15,185	14,691	1,656	18	42,301
1962	11,211	15,495	15,365	1,816	24	43,911
1963	12,176	15,741	16,271	1,768	34	45,990
1964	12,854	15,691	17,138	1,886	35	47,604
1965	13,395	15,930	17,652	2,059	38	49,074
1966	13,836	16,925	18,984	2,062	57	51,864
1967	14,215	18,100	20,087	2,347	80	54,829
1968	13,955	18,593	21,548	2,349	130	56,575
1969	14,223	18,886	22,838	2,648	146	58,741
1970	15,067	20,401	24,154	2,630	229	62,481
1971	13,607	20,033	24,805	2,825	404	61,674
1972	14,500	20,041	24,792	2,866	576	62,775
1973	13,993	19,493	24,756	2,861	910	62,060
1974	14,074	18,575	23,681	3,177	1,272	60,835
1975	14,990	17,729	22,014	3,155	1,900	59,860
1976	15,654	17,262	21,807	2,976	2,111	59,892
1977	15,755	17,454	21,892	2,333	2,702	60,219
1978	14,910	18,434	21,730	2,937	3,024	61,103
1979	17,539	18,104	22,362	2,931	2,776	63,801
1980	18,597	18,249	22,162	2,900	2,739	64,761
1981	18,376	18,146	22,006	2,758	3,008	64,421
1982	18,639	18,309	20,446	3,266	3,131	63,962
1983	17,246	18,392	18,714	3,527	3,203	61,278
1984	19,719	18,848	20,205	3,348	3,553	65,923
1985	19,325	18,992	19,147	2,939	4,149	64,840
1986	19,510	18,376	18,620	3,017	4,471	64,295
1987	20,142	17,675	19,264	2,593	4,906	64,911
1988	20,737	17,279	19,745	2,314	5,661	66,085
1989	21,345	16,117	19,938	2,771	5,677	66,133
1990	22,456	15,571	20,537	2,926	6,161	67,853
1991	21,552	15,609	20,713	2,880	6,543	67,488

See notes and sources at end of table

United States Total Production of Energy Resources by Major Source
(Trillion Btu)

(a) Includes anthracite, bituminous and lignite coals.
(b) Includes natural gas plant liquids
(c) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.
(d) Includes Alaska and Hawaii.

SOURCE: 1947-1969: U.S. Department of Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1972: U.S. Bureau of Mines, Press Release
1973-1991: U.S. Energy Information Administration, Monthly Energy Review

Section I
Table 8

Total United States Gross Consumption by Consuming Sector(a)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electricity Generation	Miscellaneous and Un-Accounted for	Total Consumption(b)
1947	6,775	12,795	8,791	4,264	410	33,035
1948	7,039	12,322	8,781	4,725	1,014	33,880
1949	6,884	11,369	8,075	4,616	544	31,488
1950	7,593	12,325	8,616	4,981	477	33,992
1951	7,857	13,698	9,206	5,281	733	36,775
1952	7,979	13,098	9,168	5,518	695	36,458
1953	7,757	13,752	9,205	5,891	981	37,586
1954	7,968	12,515	9,113	5,940	727	36,263
1955	8,595	13,991	9,826	6,595	696	39,703
1956	8,963	14,588	10,132	7,082	935	41,700
1957	8,685	14,503	10,229	7,330	959	41,706
1958	9,467	13,507	10,275	7,317	1,130	41,696
1959	9,711	14,040	10,387	7,873	1,129	43,140
1960	10,174	14,642	10,818	8,263	672	44,569
1961	10,373	14,631	10,986	8,537	792	45,319
1962	10,948	15,249	11,415	9,093	717	47,422
1963	11,016	15,908	11,962	9,683	739	49,308
1964	11,143	16,698	12,261	10,375	763	51,240
1965	11,830	17,176	12,714	11,075	548	53,343
1966	12,388	18,028	13,345	12,054	597	56,412
1967	13,015	18,230	14,015	12,728	278	58,265
1968	13,109	19,363	15,156	13,892	243	61,763
1969	13,606	20,107	15,784	15,254	228	64,979
1970	13,988	20,225	16,473	16,242	215	67,143
1971	14,549	19,299	17,076	17,222	205	68,348
1972	14,917	19,835	18,081	18,543	233	71,609
1973	12,271	23,593	18,567	19,853	NA	74,282
1974	11,771	22,602	18,082	20,022	NA	72,543
1975	11,596	20,392	18,209	20,350	NA	70,546
1976	12,250	21,465	19,066	21,574	NA	74,362
1977	11,873	21,912	19,784	22,713	NA	76,288
1978	11,907	21,875	20,580	23,724	NA	78,089
1979	11,525	22,806	20,437	24,128	NA	78,898
1980	10,720	21,072	19,658	24,505	NA	75,955
1981	10,043	19,717	19,469	24,760	NA	73,990
1982	10,064	17,473	19,032	24,270	NA	70,848
1983	9,716	16,751	19,094	24,956	NA	70,524
1984	10,085	18,209	19,827	25,977	NA	74,101
1985	9,826	17,573	20,063	26,484	NA	73,945
1986	9,576	17,290	20,729	26,642	NA	74,237
1987	9,735	18,250	21,341	27,551	NA	76,845
1988	10,372	19,056	22,141	28,626	NA	80,200
1989	10,492	19,210	22,335	29,301	NA	81,346
1990	9,939	19,921	22,009	29,578	NA	81,453

See notes and sources at end of table

Total United States Gross Consumption by Consuming Sector(a)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electricity Generation	Miscellaneous and Un-Accounted for	Total Consumption(b)
1991	9,898	19,465	22,240	29,902	NA	81,508

(a) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.
(b) Data may not add to totals because of independent rounding and consumption of geothermal power and electricity produced from wood, waste and wind energy.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000", December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: U.S. Energy Information Administration, Monthly Energy Review

United States
Demand for Energy Inputs in the Industrial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs(d)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	273,403	7,298	418.3	2,490	2,905,571	3,007	135	459	13,254
1948	244,214	6,516	427.0	2,530	3,164,928	3,276	147	500	12,822
1949	208,919	5,571	415.6	2,466	3,219,197	3,332	142	485	11,854
1950	223,507	5,957	442.4	2,641	3,601,757	3,727	164	559	12,884
1951	238,776	6,403	516.1	3,044	4,107,117	4,251	192	656	14,354
1952	211,146	5,673	515.0	3,034	4,242,986	4,391	200	682	13,780
1953	226,865	6,105	524.7	3,093	4,389,128	4,554	224	765	14,517
1954	179,148	4,860	529.8	3,118	4,383,197	4,537	235	802	13,317
1955	214,946	5,726	566.7	3,330	4,768,562	4,935	295	1,008	14,999
1956	217,810	5,805	626.6	3,688	4,922,139	5,095	326	1,113	15,701
1957	213,404	5,695	595.8	3,478	5,150,413	5,330	332	1,133	15,636
1958	175,600	4,675	570.3	3,292	5,352,294	5,540	323	1,102	14,609
1959	169,924	4,530	625.1	3,589	5,720,756	5,921	356	1,215	15,255
1960	175,225	4,673	643.9	3,682	6,074,114	6,287	383	1,306	15,948
1961	168,090	4,478	642.6	3,682	6,221,668	6,471	383	1,306	15,937
1962	169,995	4,527	678.8	3,880	6,579,008	6,842	411	1,402	16,651
1963	178,201	4,754	702.0	3,994	6,917,738	7,160	429	1,464	17,372
1964	189,561	5,063	744.6	4,184	7,198,706	7,451	453	1,544	18,242
1965	200,688	5,366	740.4	4,139	7,433,200	7,671	479	1,634	18,810
1966	204,945	5,472	781.0	4,353	7,948,486	8,203	524	1,788	19,816
1967	194,595	5,199	798.4	4,432	8,332,614	8,599	547	1,868	20,098
1968	191,602	5,124	897.2	4,965	8,987,095	9,274	599	2,044	21,407
1969	188,586	5,051	943.6	5,171	9,587,670	9,885	632	2,155	22,262
1970	186,637	5,002	940.4	5,061	9,856,844	10,161	648	2,210	22,434
1971	158,866	4,303	947.9	5,088	9,577,212	9,874	682	2,327	21,592
1972	160,624	4,275	1,058.2	5,643	9,622,659	9,882	741	2,528	22,328
1973	179,625	4,057	1,635.1	9,104	10,184,314	10,388	686	2,341	25,917
1974	172,621	3,870	1,570.6	8,694	9,768,555	10,003	685	2,337	24,994
1975	163,443	3,667	1,473.8	8,147	8,364,706	8,532	688	2,346	22,738
1976	162,494	3,661	1,626.9	9,010	8,597,645	8,761	754	2,573	24,038
1977	154,690	3,454	1,759.5	9,774	8,474,975	8,636	786	2,682	24,594
1978	149,232	3,314	1,776.9	9,867	8,404,528	8,539	809	2,761	24,636
1979	160,030	3,593	1,950.5	10,568	8,397,839	8,549	842	2,873	25,679
1980	139,048	3,155	1,771.8	9,525	8,197,267	8,394	815	2,781	23,853
1981	139,783	3,157	1,559.4	8,285	8,055,610	8,257	826	2,817	22,534
1982	112,364	2,552	1,480.9	7,794	6,935,673	7,116	745	2,542	20,015
1983	109,735	2,490	1,407.1	7,420	6,615,907	6,821	776	2,648	19,395
1984	126,070	2,842	1,502.7	7,894	7,232,039	7,449	838	2,859	21,065
1985	125,340	2,760	1,469.2	7,725	6,867,119	7,080	837	2,855	20,439
1986	119,065	2,643	1,492.1	7,953	6,504,373	6,693	831	2,834	20,139
1987	119,432	2,673	1,553.5	8,210	7,104,753	7,325	858	2,928	21,178

See notes and sources at end of table

United States
Demand for Energy Inputs in the Industrial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs(d)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	126,476	2,828	1,598.9	8,463	7,476,190	7,693	897	3,059	22,082
1989	125,744	2,810	1,553.6	8,130	7,886,408	8,131	926	3,158	22,292
1990	123,837	2,781	1,520.3	8,316	8,385,063	8,452	945	3,226	22,813
1991	116,718	2,600	1,455.8	7,963	8,593,598	8,860	941	3,209	22,674

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.
(d) Total includes small amounts of imported coke and hydro electric power.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: U.S. Energy Information Administration, Monthly Energy Review, March 1992

United States
Demand for Energy Inputs in the Household and Commercial Sector

Year	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	128,657	3,399	385	2,251	1,087,000	1,125	115	391	7,148
1948	122,994	3,238	436	2,539	1,219,402	1,262	130	442	7,481
1949	114,639	3,025	426	2,472	1,340,362	1,387	143	488	7,372
1950	110,422	2,913	526	3,038	1,586,207	1,642	160	546	8,139
1951	100,057	2,648	552	3,202	1,939,034	2,007	180	615	8,471
1952	91,212	2,416	577	3,350	2,137,635	2,213	195	666	8,645
1953	77,976	2,072	585	3,391	2,216,153	2,294	215	733	8,490
1954	65,425	1,752	630	3,650	2,479,205	2,566	234	797	8,765
1955	66,039	1,745	692	4,001	2,753,171	2,849	250	854	9,449
1956	61,685	1,629	722	4,183	3,044,435	3,151	274	935	9,898
1957	46,382	1,225	703	4,069	3,276,185	3,391	299	1,019	9,704
1958	45,005	1,187	788	4,568	3,586,025	3,712	321	1,095	10,562
1959	36,700	969	818	4,718	3,887,708	4,024	353	1,203	10,914
1960	37,180	983	853	4,923	4,123,389	4,268	370	1,262	11,436
1961	32,805	868	872	5,028	4,325,427	4,477	406	1,385	11,758
1962	32,955	872	908	5,227	4,685,231	4,849	437	1,490	12,438
1963	27,603	731	915	5,258	4,856,804	5,027	482	1,645	12,661
1964	22,949	609	904	5,191	5,162,009	5,343	525	1,792	12,935
1965	25,676	678	978	5,635	5,346,450	5,517	571	1,948	13,778
1966	25,587	677	1,000	5,766	5,760,999	5,945	616	2,101	14,489
1967	22,134	585	1,079	6,206	6,029,855	6,223	661	2,257	15,271
1968	19,983	529	1,070	6,129	6,250,997	6,451	723	2,467	15,576
1969	16,875	447	1,100	6,269	6,682,804	6,890	807	2,752	16,358
1970	16,114	427	1,128	6,453	6,984,007	7,108	879	3,000	16,988
1971	15,201	406	1,125	6,430	7,480,667	7,713	940	3,209	17,758
1972	11,708	308	1,168	6,666	7,733,964	7,943	1,019	3,478	18,395
1973	10,210	254	815	4,391	7,476,470	7,626	1,024	3,495	15,766
1974	10,370	257	743	3,996	7,341,797	7,518	1,018	3,475	15,246
1975	8,446	209	710	3,805	7,432,352	7,581	1,056	3,604	15,200
1976	8,165	203	777	4,181	7,719,333	7,866	1,098	3,747	15,997
1977	8,299	205	781	4,206	7,321,884	7,461	1,159	3,955	15,828
1978	8,736	214	756	4,070	7,503,937	7,624	1,206	4,116	16,023
1979	7,594	187	630	3,448	7,751,473	7,891	1,226	4,184	15,709
1980	5,863	145	555	3,035	7,347,953	7,540	1,276	4,355	15,075
1981	6,825	167	487	2,634	7,065,366	7,243	1,318	4,497	14,540
1982	7,731	187	454	2,449	7,244,639	7,427	1,338	4,566	14,630
1983	7,979	192	473	2,498	6,813,773	7,025	1,372	4,680	14,396
1984	8,693	209	491	2,585	7,078,641	7,291	1,444	4,928	15,014
1985	7,572	176	495	2,573	6,865,179	7,078	1,483	5,061	14,888
1986	7,447	176	492	2,576	6,631,681	6,824	1,534	5,235	14,812
1987	6,922	162	499	2,618	6,744,908	6,954	1,595	5,443	15,178

See notes and sources at end of table

United States
Demand for Energy Inputs in the Household and Commercial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	7,127	168	516	2,693	7,300,292	7,512	1,678	5,724	16,096
1989	6,173	146	510	2,625	7,496,117	7,721	1,717	5,859	16,350
1990	6,742	156	419	2,182	7,075,728	7,283	1,763	6,017	15,636
1991	6,335	147	416	2,166	7,364,078	7,585	1,814	6,190	16,089

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3412 Btu per kilowatt-hour.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000". December 1972
1970: U.S. Bureau of Mines, Minerals Yearbook 1972
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: Energy Information Administration, Monthly Energy Review, March 1992

United States
Demand for Energy Inputs in the Transportation Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	113,324	3,030	1,050.3	5,761	Neg.	--	8	29	8,820
1948	98,295	2,624	1,126.6	6,157	Neg.	--	8	27	8,808
1949	70,915	1,892	1,137.8	6,183	Neg.	--	7	25	8,100
1950	63,783	1,701	1,248.8	6,785	125,546	130	7	24	8,640
1951	56,903	1,525	1,377.5	7,482	192,496	199	7	23	9,229
1952	40,428	1,086	1,451.3	7,868	207,207	214	6	22	9,190
1953	30,074	809	1,511.5	8,158	230,314	238	6	20	9,225
1954	19,060	516	1,551.4	8,358	230,615	239	6	18	9,131
1955	17,429	464	1,691.4	9,109	245,246	253	6	19	9,845
1956	14,187	378	1,756.2	9,448	295,972	306	5	17	10,149
1957	10,126	270	1,832.0	9,649	299,235	310	4	15	10,244
1958	5,015	133	1,825.1	9,819	312,221	323	5	16	10,291
1959	3,861	102	1,849.4	9,923	349,348	362	5	17	10,404
1960	3,294	87	1,934.1	10,372	347,075	359	5	18	10,836
1961	770	21	1,971.9	10,575	377,607	390	6	19	11,005
1962	687	18	2,051.3	11,001	382,496	396	5	18	11,433
1963	670	18	2,146.7	11,506	423,783	438	6	19	11,981
1964	711	19	2,198.9	11,791	435,570	451	6	20	12,281
1965	655	18	2,271.9	12,179	500,524	517	5	18	12,732
1966	609	16	2,382.6	12,777	535,353	552	5	16	13,361
1967	467	13	2,497.1	13,408	575,752	594	5	17	14,032
1968	417	11	2,703.8	14,535	590,965	610	5	18	15,174
1969	313	8	2,815.8	15,125	630,962	651	5	17	15,801
1970	298	8	2,923.8	15,720	772,166	745	5	16	16,489
1971	207	6	3,035.1	16,304	742,592	766	5	17	17,093
1972	163	4	3,217.5	17,290	766,156	787	5	17	18,098
1973	112	3	3,305.1	17,831	728,431	743	3	8	18,585
1974	38	2	3,220.1	17,399	668,945	685	3	9	18,095
1975	0	1	3,266.7	17,614	583,333	595	3	10	18,219
1976	0	0	3,430.2	18,506	548,577	559	3	10	19,076
1977	0	0	3,563.1	19,241	532,875	543	3	10	19,794
1978	0	0	3,708.5	20,041	530,512	539	3	9	20,589
1979	0	0	3,652.4	19,825	601,179	612	3	10	20,447
1980	0	0	3,494.1	19,008	634,766	650	3	11	19,669
1981	0	0	3,463.0	18,811	641,951	658	3	11	19,480
1982	0	0	3,397.3	18,420	596,491	612	3	11	19,043
1983	0	0	3,433.6	18,593	489,817	505	3	11	19,109
1984	0	0	3,555.7	19,286	529,126	545	4	12	19,843
1985	0	0	3,601.4	19,534	503,395	519	4	13	20,067
1986	0	0	3,726.3	20,215	484,937	499	4	13	20,728
1987	0	0	3,829.0	20,780	518,914	535	4	13	21,328

See notes and sources at end of table

United States
Demand for Energy Inputs in the Transportation Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	0	0	3,961.3	21,510	614,189	632	4	14	22,155
1989	0	0	3,991.0	21,687	630,097	649	4	14	22,350
1990	0	0	4,008.1	21,804	660,194	680	4	14	22,497
1991	0	0	3,936.4	21,414	801,942	826	4	15	22,254

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

SOURCE: 1947-1969: U.S. Department of the Interior. W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: Energy Information Administration, Monthly Energy Review, March 1992

United States
Demand for Energy Inputs for Electricity Generation by Utilities

	Coal(a)		Petroleum		Natural Gas		Hydropower(b)		Nuclear Power		Total Energy Inputs(c)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1947	89,531	2,084	75.5	468	373,037	386	84,981	1,326	--	–	4,264
1948	99,586	2,392	71.7	444	478,097	495	88,535	1,393	--	–	4,724
1949	83,964	2,021	92.7	577	550,121	569	96,361	1,449	--	--	4,616
1950	91,871	2,228	106.3	662	628,919	651	102,671	1,440	–	–	4,981
1951	105,768	2,537	80.1	499	763,898	791	106,554	1,454	–	–	5,281
1952	107,071	2,588	78.8	492	910,117	942	111,977	1,496	–	–	5,518
1953	115,883	2,805	92.3	577	1,034,272	1,070	111,625	1,439	–	–	5,891
1954	118,401	2,866	76.8	480	1,165,498	1,206	113,980	1,388	–	–	5,940
1955	143,759	3,482	81.9	512	1,153,280	1,194	120,304	1,407	–	–	6,595
1956	158,279	3,815	79.4	497	1,239,311	1,283	129,775	1,487	--	–	7,082
1957	160,761	3,881	81.9	512	1,338,079	1,385	136,959	1,551	10	1	7,330
1958	155,714	3,743	82.4	515	1,372,853	1,421	147,581	1,636	165	2	7,317
1959	168,427	4,050	87.2	546	1,627,097	1,684	145,002	1,591	188	2	7,873
1960	176,633	4,251	90.1	564	1,724,763	1,785	153,958	1,657	518	6	8,263
1961	182,138	4,374	92.1	577	1,825,341	1,889	157,754	1,680	1,692	17	8,537
1962	193,128	4,636	92.4	579	1,965,590	2,034	172,458	1,821	2,270	23	9,093
1963	211,193	5,065	95.7	600	2,142,930	2,218	168,573	1,767	3,212	33	9,683
1964	225,271	5,395	101.4	636	2,321,889	2,403	182,258	1,907	3,341	34	10,375
1965	244,887	5,843	118.6	744	2,318,253	2,392	196,843	2,058	3,657	38	11,075
1966	266,394	6,327	144.2	905	2,608,768	2,692	199,030	2,073	5,520	57	12,054
1967	273,970	6,457	161.3	1,013	2,746,352	2,834	224,650	2,344	7,655	80	12,728
1968	296,942	6,994	188.0	1,181	3,143,858	3,245	225,242	2,342	12,528	130	13,892
1969	310,310	7,227	259.8	1,628	3,486,391	3,594	254,540	2,659	13,928	146	15,254
1970	322,357	7,261	333.8	2,087	3,894,019	4,015	252,571	2,650	21,801	229	16,242
1971	327,926	7,330	407.1	2,543	3,992,983	4,117	269,899	2,828	37,899	404	17,222
1972	350,196	7,836	503.7	3,134	3,978,673	4,086	280,470	2,911	54,032	576	18,543
1973	388,194	8,658	562.9	3,515	3,660,156	3,748	286,361	2,975	83,463	910	19,853
1974	391,809	8,534	539.4	3,365	3,443,249	3,519	313,733	3,276	113,968	1,272	20,022
1975	405,970	8,786	506.6	3,166	3,157,895	3,240	306,266	3,187	172,523	1,900	20,350
1976	448,360	9,720	556.2	3,477	3,081,134	3,152	292,297	3,032	191,093	2,111	21,574
1977	477,125	10,262	624.3	3,901	3,191,448	3,284	237,853	2,482	250,905	2,702	22,713
1978	481,222	10,238	637.8	3,987	3,188,588	3,297	300,164	3,110	276,392	3,024	23,724
1979	527,055	11,260	524.6	3,283	3,490,821	3,613	300,106	3,107	255,171	2,776	24,128
1980	569,289	12,123	421.2	2,634	3,681,159	3,810	296,918	3,085	251,128	2,739	24,505
1981	596,775	12,583	351.9	2,202	3,640,580	3,768	293,887	3,072	272,711	3,008	24,760
1982	593,659	12,582	250.6	1,568	3,225,869	3,342	338,531	3,539	282,760	3,131	24,270
1983	625,231	13,213	246.8	1,544	2,910,680	2,998	367,490	3,866	293,718	3,203	24,956
1984	664,423	14,020	205.7	1,286	3,111,111	3,220	360,845	3,725	327,677	3,553	25,977
1985	693,831	14,542	174.5	1,090	3,044,316	3,160	322,081	3,330	383,705	4,149	26,484
1986	685,069	14,444	232.1	1,452	2,602,515	2,691	325,771	3,353	414,020	4,471	26,642
1987	725,183	15,173	201.2	1,257	2,843,992	2,935	296,001	3,035	445,271	4,906	27,551
1988	757,540	15,850	250.1	1,563	2,635,214	2,709	254,714	2,607	526,948	5,661	28,626

See notes and sources at end of table

United States
Demand for Energy Inputs for Electricity Generation by Utilities

	Coal(a)		Petroleum		Natural Gas		Hydropower(b)		Nuclear Power		Total Energy Inputs(c)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1989	766,884	15,988	270.0	1,685	2,776,596	2,871	276,062	2,852	529,373	5,677	29,301
1990	772,929	16,189	200.3	1,250	2,787,234	2,882	281,677	2,914	574,506	6,161	29,578
1991	772,319	16,065	188.5	1,178	2,781,431	2,876	295,017	3,049	612,640	6,543	29,902

(a) Includes anthracite, bituminous, and lignite coals
(b) Includes net inputs and negligible amount of hydropower generated by industrial establishments
(c) Total includes small amounts of geothermal power and electricity from wood and waste.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000"
December 1972
1970-1972: U.S. Bureau of Mines, Minerals Yearbook 1975
1973-1991: U.S. Energy Information Administration, Monthly Energy Review, March 1992

Section I
Table 13

World Primary Energy Production(a)
(Quadrillion Btu)

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Canada	9.50	9.38	8.89	8.68	9.03	9.14	9.99	10.04	9.75	9.64	10.11	11.01
Mexico	1.87	2.15	2.44	2.74	3.14	3.76	4.51	5.80	6.78	7.82	7.70	7.88
United States	61.95	60.72	59.73	59.81	60.14	61.03	63.71	64.64	64.30	63.79	61.08	65.67
Total North America	73.32	72.25	71.06	71.22	72.31	73.93	78.22	80.48	80.83	81.25	78.90	84.56
Venezuela	8.13	7.29	5.90	5.79	5.69	5.52	6.04	5.71	5.58	5.22	4.99	5.02
Total Central & South America	12.85	12.09	10.62	10.67	10.88	11.19	12.23	12.15	12.13	12.04	12.21	13.10
France	1.78	1.82	1.88	1.71	2.00	2.02	2.03	2.26	2.65	2.62	2.97	3.37
West Germany	4.92	4.95	4.87	5.14	5.12	5.12	5.44	5.44	5.57	5.72	5.53	5.77
Italy	1.06	1.07	1.08	1.11	1.15	1.13	1.10	1.07	1.11	1.16	1.12	1.17
Netherlands	2.52	2.86	3.16	3.44	2.90	2.49	2.69	3.32	3.10	2.67	2.62	2.71
Norway	0.83	0.88	1.22	1.47	1.47	2.07	2.68	3.02	3.06	3.11	3.41	3.65
United Kingdom	4.66	4.47	4.97	5.39	6.58	7.19	8.24	8.40	8.71	9.49	9.92	8.78
Total Western Europe	19.58	20.01	21.36	22.34	23.93	24.81	27.40	28.65	29.73	30.65	31.86	32.40
Iran	13.27	13.68	12.23	13.43	12.88	11.93	7.46	3.91	3.28	5.12	5.67	5.28
Iraq	4.35	4.25	4.89	5.25	5.08	5.53	7.49	5.45	2.16	2.19	2.17	2.61
Kuwait	6.75	5.67	4.68	4.84	4.46	4.90	5.78	3.88	2.70	1.98	2.51	2.76
Saudi Arabia	16.63	18.68	15.68	18.88	20.51	18.45	21.24	22.48	22.57	14.86	11.69	11.29
United Arab Emirates	3.27	3.56	3.56	4.20	4.45	4.09	4.12	3.89	3.45	3.00	2.91	3.00
Total Middle East	46.61	48.33	43.58	49.13	49.77	47.30	48.65	42.13	36.73	29.54	27.29	27.65
Algeria	2.47	2.35	2.34	2.65	2.63	3.28	3.16	2.75	2.95	3.11	3.46	3.71
Libya	4.72	3.32	3.27	4.26	4.53	4.40	4.63	4.03	2.57	2.61	2.52	2.53
Nigeria	4.45	4.89	3.88	4.51	4.50	4.06	4.95	4.50	3.18	2.86	2.77	3.12
South Africa	1.48	1.57	1.65	1.84	2.03	2.15	2.46	2.74	3.09	3.24	3.45	3.87
Total Africa	14.81	13.93	13.19	15.49	16.44	16.70	18.30	17.35	15.09	15.42	16.12	17.52
Australia	3.25	3.44	3.64	3.35	3.43	3.51	3.66	3.53	3.89	4.04	4.24	4.42
China	13.14	14.25	15.11	15.35	16.16	18.05	18.53	18.32	18.10	19.13	20.46	22.39
India	2.22	2.36	2.68	2.88	2.95	3.14	3.30	3.35	4.09	4.43	4.87	5.21
Indonesia	2.90	2.99	2.90	3.38	3.85	3.71	3.83	4.16	4.27	3.65	3.84	4.27
Total Far East & Oceania	26.17	28.04	29.71	30.59	32.09	34.53	35.99	36.53	37.47	38.90	41.54	45.08
Poland	4.94	5.09	5.37	5.00	5.18	5.36	5.51	5.28	4.54	5.16	5.25	5.37
USSR	39.28	41.77	43.62	47.46	49.79	52.11	53.88	55.67	56.71	58.27	59.96	62.00
Total Eastern Europe & USSR	51.44	54.17	56.51	60.23	62.95	65.40	67.52	69.20	69.67	72.18	74.15	76.53
TOTAL WORLD	244.78	248.81	246.03	259.67	268.37	273.87	288.31	286.50	281.66	279.98	282.07	296.83

See notes and sources at end of table

World Primary Energy Production(a)
(Quadrillion Btu)

Region and Country	1985	1986	1987	1988	1989	1990(p)
Canada	11.80	11.71	12.32	13.17	13.10	13.15
Mexico	7.74	7.07	7.20	7.30	7.33	7.36
United States	64.55	63.99	64.58	65.77	65.85	67.47
Total North America	84.09	82.77	84.11	86.24	86.28	87.98
Venezuela	4.77	5.14	5.07	5.53	5.72	6.29
Total Central & South America	13.42	14.11	14.05	15.16	15.62	16.46
France	3.54	3.80	3.97	4.10	4.09	4.20
West Germany	6.10	5.85	5.80	5.93	5.83	5.77
Italy	1.18	1.26	1.19	1.27	1.15	1.14
Netherlands	2.82	2.71	2.78	2.55	2.63	2.72
Norway	3.82	3.97	4.48	4.84	5.77	6.13
United Kingdom	10.11	10.55	10.24	9.93	8.90	8.66
Total Western Europe	34.98	35.82	36.53	36.98	36.35	36.54
Iran	5.57	5.06	5.66	5.70	7.12	7.65
Iraq	3.09	3.66	4.58	5.97	6.31	4.62
Kuwait	2.44	3.36	3.77	3.63	4.36	2.94
Saudi Arabia	8.55	11.91	10.73	12.73	12.68	15.88
United Arab Emirates	3.29	3.68	4.21	4.22	5.20	5.62
Total Middle East	25.66	30.62	32.08	35.98	39.83	41.04
Algeria	3.77	3.55	4.01	4.02	4.29	4.56
Libya	2.46	2.43	2.29	2.73	2.68	3.18
Nigeria	3.35	3.30	3.04	3.29	3.83	4.14
South Africa	4.17	4.26	4.23	4.30	4.28	4.07
Total Africa	18.42	18.13	18.48	19.43	20.37	21.45
Australia	5.34	5.49	6.02	5.82	6.13	6.62
China	24.14	24.90	26.19	27.07	29.07	30.23
India	5.52	5.96	5.81	5.89	6.50	6.75
Indonesia	4.24	4.33	4.36	4.42	4.73	4.92
Total Far East & Oceania	48.99	51.09	53.14	54.24	57.93	60.17
Poland	5.54	5.72	5.79	5.87	5.49	5.76
USSR	63.81	66.38	68.49	70.90	69.48	67.64
Total Eastern Europe & USSR	78.64	81.49	83.54	86.18	84.09	81.43
TOTAL WORLD	304.19	314.02	321.92	334.22	340.47	345.06

(a) Includes only crude oil, lease condensate, natural gas plant liquids, dry natural gas, coal, net hydroelectric power and net nuclear power.

SOURCE: U.S. Energy Information Administration, International Energy Annual.

World Coal Production(a)
(Million Short Tons)

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Canada	23	23	28	28	32	34	37	40	44	47	50	63	67	64	67	78
Mexico	5	6	6	6	7	7	8	8	8	8	10	10	9	9	8	11
United States	599	610	655	685	697	670	781	830	824	838	782	896	884	890	919	950
Total North America	626	639	688	719	736	711	826	878	876	894	841	969	960	964	994	1,039
Total Central & South America	8	9	9	10	10	10	16	16	14	16	16	18	21	23	27	27
West Germany	238	244	238	247	229	228	239	239	241	247	236	233	231	222	211	207
United Kingdom	143	121	142	137	135	136	135	141	138	137	127	55	104	119	115	117
Yugoslavia	36	37	39	41	43	44	46	52	58	60	65	72	75	77	78	78
Total Western Europe	508	488	509	518	506	509	529	543	561	577	571	510	570	584	573	564
South Africa	69	73	77	85	94	100	114	127	144	151	161	179	192	195	195	196
Total Africa	75	78	82	91	100	106	121	133	149	157	167	184	198	201	202	204
Australia	94	100	105	109	111	114	119	116	130	140	146	153	186	187	209	198
China	520	548	570	586	606	681	698	684	683	734	788	870	937	959	1,019	1,058
India	89	96	109	116	115	116	118	125	142	148	158	168	173	188	207	208
Total Middle East, Far East & Oceania	800	842	890	911	934	1,014	1,042	1,036	1,071	1,138	1,206	1,308	1,448	1,490	1,572	1,615
Czechoslovakia	120	122	127	130	134	136	137	136	137	139	140	143	140	139	137	137
East Germany	272	269	272	273	280	279	282	285	294	304	309	327	344	343	331	342
Poland	216	222	233	241	250	258	264	254	219	250	258	267	275	286	290	294
U.S.S.R.	736	755	773	784	796	798	792	790	703	713	707	700	714	741	750	761
Total Eastern Europe & USSR	1,431	1,454	1,494	1,513	1,546	1,560	1,571	1,566	1,456	1,515	1,518	1,550	1,587	1,625	1,622	1,654
TOTAL WORLD	3,447	3,511	3,673	3,763	3,834	3,911	4,105	4,173	4,128	4,296	4,319	4,538	4,783	4,887	4,994	5,109

See notes and sources at end of table

Section I
Table 14a

World Coal Production(a)
(Million Short Tons)

Region and Country	1989	1990(p)
Canada	78	75
Mexico	11	12
United States	981	1,029
Total North America	1,069	1,116
Total Central & South America	33	35
West Germany	206	203
United Kingdom	111	98
Yugoslavia	82	84
Total Western Europe	571	545
South Africa	194	186
Total Africa	202	195
Australia	216	231
China	1,162	1,220
India	230	241
Total Middle East, Far East & Oceania	1,748	1,839
Czechoslovakia	130	118
East Germany	332	282
Poland	275	289
U.S.S.R.	761	694
Total Eastern Europe & USSR	1,628	1,480
TOTAL WORLD	5,253	5,211

(a) Includes anthracite, subanthracite, bituminous, subbituminous, lignite and brown coal.

SOURCE: U.S. Energy Information Administration, International Energy Annual

United States Government Energy Use by Agency, by Source
(Fiscal Year, Trillion BTU)

	Petroleum								
Agency	Motor Gasoline	Distillate & Residual Fuel Oils	Jet Fuel & Aviation Gas	Other(a)	Total	Electricity(e)	Natural Gas	Coal and Other(b)	Total
					1980				
Defense	28.0	278.9	635.8	2.8	945.5	298.4	105.3	45.6	1,394.8
Energy	1.3	3.6	0.3	0.2	5.4	51.7	9.7	17.2	84.0
Postal Service	10.0	2.8	0.0	0.1	12.8	35.0	3.0	1.4	52.3
GSA	0.1	1.7	0.0	0.0	1.8	29.4	3.2	4.4	38.9
Veteran's Administration	0.5	3.4	0.0	0.0	3.9	18.5	14.0	1.8	38.2
Transportation	1.4	7.6	5.3	0.0	14.3	11.8	1.0	0.4	27.6
NASA	0.3	1.0	1.5	0.0	2.8	15.3	2.6	0.7	21.4
Interior	2.7	2.1	0.1	0.5	5.5	4.5	1.6	0.1	11.7
Agriculture	4.6	1.2	0.3	0.2	6.3	3.6	1.2	0.0	11.2
Health & Human Services	0.6	2.2	0.0	0.1	2.9	5.0	1.6	0.0	9.5
Justice	1.9	0.5	0.1	0.0	2.4	2.4	2.0	0.5	7.4
Other(c)	4.7	2.7	0.2	0.0	7.7	6.6	1.9	0.3	16.6
TOTAL	56.1	307.7	643.6	4.0	1,011.3	482.3	147.3	72.6	1,713.5
					1990(p)				
Defense	12.5	286.3	723.9	4.2	1,027.0	407.1	108.1	54.6	1,596.7
Energy	1.2	3.3	0.4	0.2	5.1	65.0	9.3	10.0	89.3
Postal Service	8.9	4.5	0.0	0.2	13.6	40.1	3.6	0.8	58.1
Veteran's Admin.	0.4	2.3	0.0	0.0	2.7	27.0	13.0	1.2	43.9
GSA	0.1	0.7	0.0	0.0	0.8	30.4	2.4	2.5	36.2
Transportation	0.8	5.6	6.9	0.1	13.4	13.6	1.1	0.0	28.1
NASA	0.2	1.0	1.6	0.0	2.7	22.0	2.9	0.5	28.1
Agriculture	4.6	0.8	0.1	0.2	5.7	6.9	1.7	0.0	14.3
Health & Human Serv.	0.2	2.9	0.0	0.1	3.2	9.5	2.1	0.3	15.0
Justice	1.9	0.3	0.1	0.0	2.4	5.3	2.5	1.4	11.7
Interior	2.2	1.1	0.2	1.0	4.5	4.3	1.1	0.2	10.2
Other(d)	4.6	3.2	1.2	0.0	9.0	15.2	2.3	0.8	27.3
TOTAL	37.7	311.9	734.4	6.1	1,090.1	646.3	150.2	72.3	1,958.9

See notes and sources at end of table

United States Government Energy Use by Agency, by Source (Fiscal Year, Trillion BTU)

(p) Preliminary.
(a) Includes liquefield petroleum gases and other.
(b) Includes purchased steam, coal and other.
(c) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission and Environmental Protection Agency.
(d) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, National Archives, Environmental Protection Agency, Federal Trade Commission, Commodities Futures Trading Commission, Nuclear Regulatory Commission, Railroad Retirement Board, Equal Employment Opportunity Commission, and Office of Personnel Management.
(e) Conversion factor for electricity used was 11,600 Btu per kilowatthour.
NOTE: These data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the Defense Department. U.S. Government energy use for electricity generation and uranium enrichment is excluded. However, other energy used by U.S. agencies that produce electricity and enrich uranium is included.

SOURCE: U.S. Energy Information Administration, Annual Energy Review 1990.

United States Government Energy Use(a)
(Fiscal Year, Trillion BTU)

AGENCY	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990(p)
Defense	1,558.1	1,386.8	1,398.4	1,365.7	1,384.6	1,394.8	1,455.4	1,484.3	1,475.1	1,524.1	1,494.7	1,460.5	1,537.3	1,424.9	1,564.1	1,596.7
Energy	85.2	87.2	87.9	87.1	86.9	84.0	85.3	89.1	91.3	95.5	97.1	92.0	93.2	96.7	89.9	89.3
Postal Service	59.2	58.3	62.9	58.6	56.0	52.3	50.9	49.4	48.4	50.5	51.0	51.5	53.3	55.8	57.9	58.1
GSA	43.0	41.1	41.1	41.3	40.5	38.9	39.1	38.9	37.8	38.0	35.4	34.1	32.4	30.4	31.0	36.2
Veteran's Admin.	39.2	36.5	37.9	39.4	38.5	38.2	37.4	38.0	38.7	40.0	40.6	41.8	42.0	44.4	44.9	43.9
Transportation	28.5	27.4	28.8	28.9	27.6	27.6	28.0	28.5	28.7	29.2	28.6	28.5	28.7	28.5	28.1	28.1
NASA	26.4	25.1	24.0	22.4	22.4	21.4	21.2	21.8	22.4	23.0	23.3	24.7	25.2	25.4	27.5	28.1
Agriculture	11.9	11.6	10.8	11.2	11.6	11.2	10.9	10.4	10.4	10.7	12.0	10.6	11.4	11.9	12.9	14.3
Interior	12.3	13.1	13.5	12.3	13.6	11.7	10.7	10.7	10.8	11.8	10.6	10.0	9.7	10.4	10.4	10.2
Health & Human Serv.	9.3	9.6	9.9	9.6	9.7	9.5	10.6	10.2	10.3	10.8	13.0	10.7	11.2	12.1	12.9	15.0
Justice	7.1	7.1	7.5	7.4	8.1	7.4	7.1	7.7	7.6	8.9	10.8	11.3	11.1	12.3	11.7	11.7
Other(b)	14.8	15.0	15.8	16.9	16.7	16.6	16.3	18.4	16.9	17.7	17.4	18.0	19.8	24.3	26.2	27.3
TOTAL	1,895.0	1,718.9	1,738.6	1,701.0	1,716.3	1,713.5	1,772.9	1,807.5	1,798.6	1,860.2	1,834.5	1,793.5	1,875.2	1,777.1	1,917.3	1,958.9

ENERGY SOURCE	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990(p)
Petroleum	1,162.0	1,015.8	1,041.5	1,002.2	1,012.7	1,011.4	1,065.8	1,082.5	1,060.9	1,093.6	1,052.3	1,032.2	1,069.7	951.5	1,053.8	1,090.1
Motor Gasoline	63.4	59.9	60.9	59.6	58.6	56.1	52.9	52.9	51.4	51.0	50.5	45.3	43.1	41.2	41.1	37.7
Aviation Gasoline	21.1	11.6	8.8	6.2	4.7	4.9	4.6	3.6	2.6	1.9	1.9	1.4	1.0	6.0	0.7	0.6
Jet Fuel	707.4	610.0	619.2	601.2	618.6	638.7	653.3	672.7	673.3	693.7	705.7	710.2	702.3	686.8	686.8	733.8
Distillate & Residual	364.7	329.7	348.5	332.3	327.1	307.7	351.3	349.4	329.5	342.9	290.2	271.4	319.3	284.4	244.9	311.9
LPG's	5.4	4.6	4.1	3.0	3.7	4.0	3.7	3.9	4.0	4.1	4.0	3.9	4.0	2.7	5.4	6.1
Electricity	481.2	473.5	479.7	479.2	479.9	482.3	491.2	501.6	515.2	530.1	552.8	539.9	575.9	580.6	638.8	646.3
Natural Gas	166.2	151.8	141.2	144.7	148.9	147.3	142.2	146.2	147.8	157.4	149.0	141.3	145.7	144.8	151.6	150.2
Coal	77.9	71.3	68.4	66.0	65.1	63.5	65.1	68.6	62.4	65.3	64.0	63.8	67.0	60.1	48.6	48.0
Purchased Steam	7.6	6.3	7.8	8.7	9.7	9.1	8.5	8.6	12.3	13.8	16.5	16.3	17.0	40.1	24.4	24.3
TOTAL	1,895.0	1,718.9	1,738.6	1,701.0	1,716.3	1,713.5	1,772.9	1,807.5	1,798.6	1,860.2	1,834.5	1,793.5	1,875.2	1,777.1	1,917.3	1,958.9

(a) Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering primarily by the Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. However, other energy used by U.S. agencies that produce electricity or enrich uranium is included.

(b) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, Environmental Protection Agency, National Archives, Federal Trade Commission, Railroad Retirement Board, Commodities Futures Trading Commission, Equal Employment Opportunity Commission, Nuclear Regulatory Commission, and Office of Personnel Management.

(p) Preliminary

SOURCE: U.S. Energy Information Administration, Annual Energy Review 1990.

BASIC PETROLEUM DATA BOOK

SECTION II. RESERVES, CRUDE OIL

Table 1. Estimated Proved World Crude Oil Reserves

Table 2. U.S. Crude Oil Reserves

Table 3. U.S. Proved Crude Oil Reserves by State

Table 4. Estimated Proved World Crude Oil Reserves-Twenty Leading Nations

Table 5. USGS Estimates of U.S. Oil and Gas Resources

Section II
Table 1

Estimated Proved World Crude Oil Reserves
Annually as of January 1
(Millions of Barrels)

Year	United States(a)	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1948	21,487.7	125.0	10,085.0	31,697.7	28,550.0	100.0	1,300.0	50.0	61,697.7	6,500.0	NA	68,197.7
1949	23,280.4	500.0	10,880.0	34,660.4	32,621.0	122.0	1,372.0	179.0	68,954.4	4,645.0	NA	73,599.4
1950	24,649.5	1,200.0	11,400.8	37,250.3	32,413.0	202.5	1,557.0	289.0	71,711.7	4,741.0	NA	76,452.7
1951	25,268.4	1,202.6	11,525.0	37,996.0	41,567.0	188.0	1,765.0	445.4	81,961.4	7,965.0	NA	89,926.4
1952	27,468.0	1,376.6	12,710.9	41,555.5	51,320.0	175.0	1,965.5	501.5	95,517.5	7,927.0	NA	103,444.5
1953	27,960.6	1,679.5	11,883.5	41,523.6	64,825.0	163.0	2,062.0	472.7	109,046.3	9,408.0	NA	118,454.3
1954	28,944.8	1,845.4	13,182.0	43,972.3	78,160.0	158.0	2,583.0	641.5	125,514.8	9,455.0	NA	134,969.8
1955	29,560.7	2,207.6	14,356.0	46,124.4	97,459.0	112.0	2,708.0	1,049.2	147,452.6	10,047.0	NA	157,499.6
1956	30,012.2	2,509.5	15,515.0	48,036.7	126,271.0	169.0	3,000.0	1,261.0	178,737.7	10,833.0	NA	189,570.7
1957	30,434.6	2,849.4	17,474.0	50,758.0	144,470.0	285.0	6,140.0	1,305.0	202,958.0	25,000.0	NA	227,958.0
1958	30,300.4	2,874.6	21,003.5	54,178.4	169,566.0	814.0	8,578.0	1,304.0	234,440.4	26,200.0	NA	260,640.4
1959	30,535.9	3,165.9	21,843.0	55,544.8	173,951.0	4,118.5	9,646.5	1,437.0	244,697.8	27,705.0	NA	272,402.8
1960	31,719.3	3,497.1	24,435.6	59,652.1	181,436.0	7,273.5	10,175.5	1,496.0	260,033.1	30,002.0	NA	290,035.1
1961	31,613.2	3,678.5	25,061.8	60,353.6	183,160.0	8,099.5	10,906.5	1,722.0	264,241.6	33,502.0	NA	297,743.6
1962	31,758.5	4,173.6	24,706.0	60,638.1	188,204.0	9,709.5	10,867.6	1,736.0	271,155.2	34,252.0	NA	305,407.2
1963	31,389.2	4,480.7	24,225.5	60,095.4	193,975.0	12,345.5	11,331.1	1,791.0	279,538.0	29,976.0	NA	309,514.0
1964	30,970.0	4,881.5	24,305.0	60,156.5	207,368.0	16,375.5	11,621.2	1,925.6	297,446.8	29,500.0	NA	326,946.8
1965	30,990.5	6,177.5	25,525.0	62,693.1	212,180.0	19,395.6	11,613.7	2,035.6	307,918.0	30,750.0	NA	338,668.0
1966	31,352.4	6,711.2	25,170.5	63,234.1	215,360.0	23,049.0	11,008.8	2,085.0	314,736.9	33,485.0	NA	348,221.9
1967	31,452.1	7,791.8	27,100.3	66,344.2	235,614.6	32,355.5	11,808.5	1,924.5	348,047.3	33,838.0	NA	381,885.3
1968	31,376.7	8,168.9	26,907.3	66,452.8	249,209.0	42,285.3	11,815.9	2,017.0	371,780.0	35,773.0	NA	407,553.0
1969	30,707.1	8,381.6	28,782.8	67,871.5	270,760.0	44,568.8	13,720.2	1,937.0	398,857.5	55,877.0	NA	454,734.5
1970	29,631.9	8,619.8	29,179.8	67,431.4	333,506.0	54,679.5	13,138.2	1,779.0	470,534.1	60,000.0	NA	530,534.1
1971	39,001.3	8,559.0	26,185.3	73,745.6	344,574.9	74,757.5	14,408.6	3,708.5	511,195.1	100,000.0	NA	611,195.1
1972	38,063.0	8,333.1	31,558.8	77,954.8	367,386.0	58,886.2	15,604.5	14,222.0	534,053.5	98,500.0	NA	632,553.5
1973	36,339.4	8,020.1	32,601.8	76,961.3	355,852.0	106,402.0	14,922.3	12,082.0	566,219.6	98,000.0	NA	664,219.6
1974	35,299.8	7,674.2	31,640.3	74,614.2	350,162.5	67,303.8	15,635.0	15,991.0	523,706.5	103,000.0	NA	626,706.5
1975	34,250.0	7,171.2	40,578.0	81,999.2	403,858.2	68,299.5	21,047.7	25,814.0	601,018.5	111,400.0	NA	712,418.5
1976	32,682.1	6,653.0	35,368.0	74,703.1	368,410.6	65,085.2	21,234.2	25,487.7	554,920.8	103,000.0	NA	657,920.8
1977	33,502.0	6,247.1	29,609.0	69,358.0	367,681.2	60,570.2	19,391.1	24,538.8	541,539.4	101,100.0	NA	642,639.4
1978	31,780.0	5,970.9	40,270.0	78,020.9	366,166.0	59,200.2	19,749.3	26,862.5	549,998.8	98,000.0	NA	647,998.8
1979	31,355.0	6,860.0	41,246.5	79,461.5	369,996.0	57,892.1	20,007.2	23,966.0	551,322.8	94,000.0	NA	645,322.8
1980	29,810.0	6,800.0	56,472.5	93,082.0	361,947.3	57,072.1	19,355.2	23,476.4	554,933.0	90,000.0	NA	644,933.0
1981	29,805.0	6,400.0	69,489.8	105,694.8	362,071.0	55,148.4	19,630.5	23,085.0	565,629.7	86,300.0	NA	651,929.7
1982	29,426.0	7,300.0	84,982.3	121,708.3	362,840.0	56,171.6	19,150.8	24,634.5	584,505.2	85,845.0	NA	670,350.2
1983	27,858.0	7,020.0	78,482.1	113,360.1	369,285.9	57,821.7	19,756.1	22,923.7	583,147.4	85,115.0	NA	668,262.4
1984	27,735.0	6,730.0	81,675.9	116,140.9	370,100.8	56,907.0	18,969.4	23,019.5	585,137.6	84,600.0	NA	669,737.6
1985	28,446.0	7,075.0	83,315.7	118,836.7	398,380.8	55,540.6	18,529.9	24,425.5	615,713.4	84,100.0	NA	699,813.4
1986	28,416.0	6,500.0	84,242.4	119,158.4	398,035.7	56,734.1	18,855.8	26,412.6	619,196.6	81,370.0	NA	700,566.6
1987	26,889.0	6,850.0	88,755.3	122,494.3	401,878.7	55,194.1	19,023.5	21,938.1	620,528.7	79,250.0	NA	699,778.7
1988	27,256.0	6,825.0	114,332.0	148,413.0	564,680.3	55,249.7	19,353.7	22,447.8	810,144.5	79,200.0	NA	889,344.5

See notes and sources at end of table

Section II
Table 1a

Estimated Proved World Crude Oil Reserves
Annually as of January 1
(Millions of Barrels)

Year	United States(a)	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1989	26,825.0	6,785.5	121,950.7	155,561.2	571,518.8	56,963.8	21,367.4	18,556.6	823,967.8	83,800.0	NA	907,767.8
1990	26,501.0	6,133.5	125,026.9	157,661.4	660,247.2	58,836.6	22,545.4	18,822.1	918,112.7	84,100.0	NA	1,002,212.7
1991	26,254.0	5,782.9	121,090.7	153,050.7	662,597.9	59,892.1	50,242.1	14,475.8	940,258.6	NA	58,855.0	999,113.5
1992	26,250.0	5,587.8	119,765.5	151,603.2	661,570.8	60,487.5	44,073.2	14,503.2	932,237.9	NA	58,773.5	991,011.4

(a) For 1971-1974 figures include 6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.
(b) Due to the political changes in the USSR and Eastern Europe the category Communist Nations has been discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1948-1976: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
1977-1991: United States, U.S. Energy Information Administration, Crude Oil, Natural Gas and
Natural Gas Liquids Reserves Report, Annual.
Canada, Canadian Petroleum Association (1952-1980)
Rest of the World, Oil and Gas Journal, "Worldwide Report" Issues
1992: Oil and Gas Journal, "Worldwide Production Report" Issue

Section II
Table 2

United States Crude Oil Reserves
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Revisions Extensions and Discoveries, During Year	Production During Year (a)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1947	20,873,560	2,464,570	1,850,445	21,487,685	11.6
1948	21,487,685	3,795,207	2,002,448	23,280,444	11.6
1949	23,280,444	3,187,845	1,818,800	24,649,489	13.6
1950	24,649,489	2,562,685	1,943,776	25,268,398	13.0
1951	25,268,398	4,413,954	2,214,321	27,468,031	12.4
1952	27,468,031	2,749,288	2,256,765	27,960,554	12.4
1953	27,960,554	3,296,130	2,311,856	28,944,828	12.5
1954	28,944,828	2,873,037	2,257,119	29,560,746	13.1
1955	29,560,746	2,870,724	2,419,300	30,012,170	12.4
1956	30,012,170	2,974,336	2,551,857	30,434,649	11.9
1957	30,434,649	2,424,800	2,559,044	30,300,405	11.8
1958	30,300,405	2,608,242	2,372,730	30,535,917	12.9
1959	30,535,917	3,666,745	2,483,315	31,719,347	12.8
1960	31,719,347	2,365,328	2,471,464	31,613,211	12.8
1961	31,613,211	2,657,567	2,512,273	31,758,505	12.6
1962	31,758,505	2,180,896	2,550,178	31,389,223	12.3
1963	31,389,223	2,174,110	2,593,343	30,969,990	11.9
1964	30,969,990	2,664,767	2,644,247	30,990,510	11.7
1965	30,990,510	3,048,079	2,686,198	31,352,391	11.7
1966	31,352,391	2,963,978	2,864,242	31,452,127	11.0
1967	31,452,127	2,962,122	3,037,579	31,376,670	10.3
1968	31,376,670	2,454,635	3,124,188	30,707,117	9.8
1969	30,707,117	2,120,036	3,195,291	29,631,862	9.3
1970	29,631,862	12,688,918 (b)	3,319,445	39,001,335 (b)	11.7 (b)
1971	39,001,335 (b)	2,317,732	3,256,110	38,062,957 (b)	11.7 (b)
1972	38,062,957 (b)	1,557,848	3,281,397	36,339,408 (b)	11.1 (b)
1973	36,339,408 (b)	2,145,831	3,185,400	35,299,839 (b)	11.1 (b)
1974	35,299,839 (b)	1,993,573	3,043,456	34,249,956 (b)	11.3 (b)
1975	34,249,956 (b)	1,318,463	2,886,292	32,682,127 (b)	11.3 (b)
1976	32,682,127 (b)	1,085,291	2,825,252	30,942,166 (b)	11.0 (b)
1977(c	33,502,000	1,140,000	2,862,000	31,780,000	11.1
1978	31,780,000	2,583,000	3,008,000	31,355,000	10.4
1979	31,355,000	1,410,000	2,955,000	29,810,000	10.1
1980	29,810,000	2,970,000	2,975,000	29,805,000	10.0
1981	29,805,000	2,570,000	2,949,000	29,426,000	10.0
1982	29,426,000	1,382,000	2,950,000	27,858,000	9.4
1983	27,858,000	2,897,000	3,020,000	27,735,000	9.2
1984	27,735,000	3,748,000	3,037,000	28,446,000	9.4
1985	28,446,000	3,022,000	3,052,000	28,416,000	9.3
1986	28,416,000	1,446,000	2,973,000	26,889,000	9.0
1987	26,889,000	3,240,000	2,873,000	27,256,000	9.5
1988	27,256,000	2,380,000	2,811,000	26,825,000	9.5

See notes and sources at end of table

Section II
Table 2a

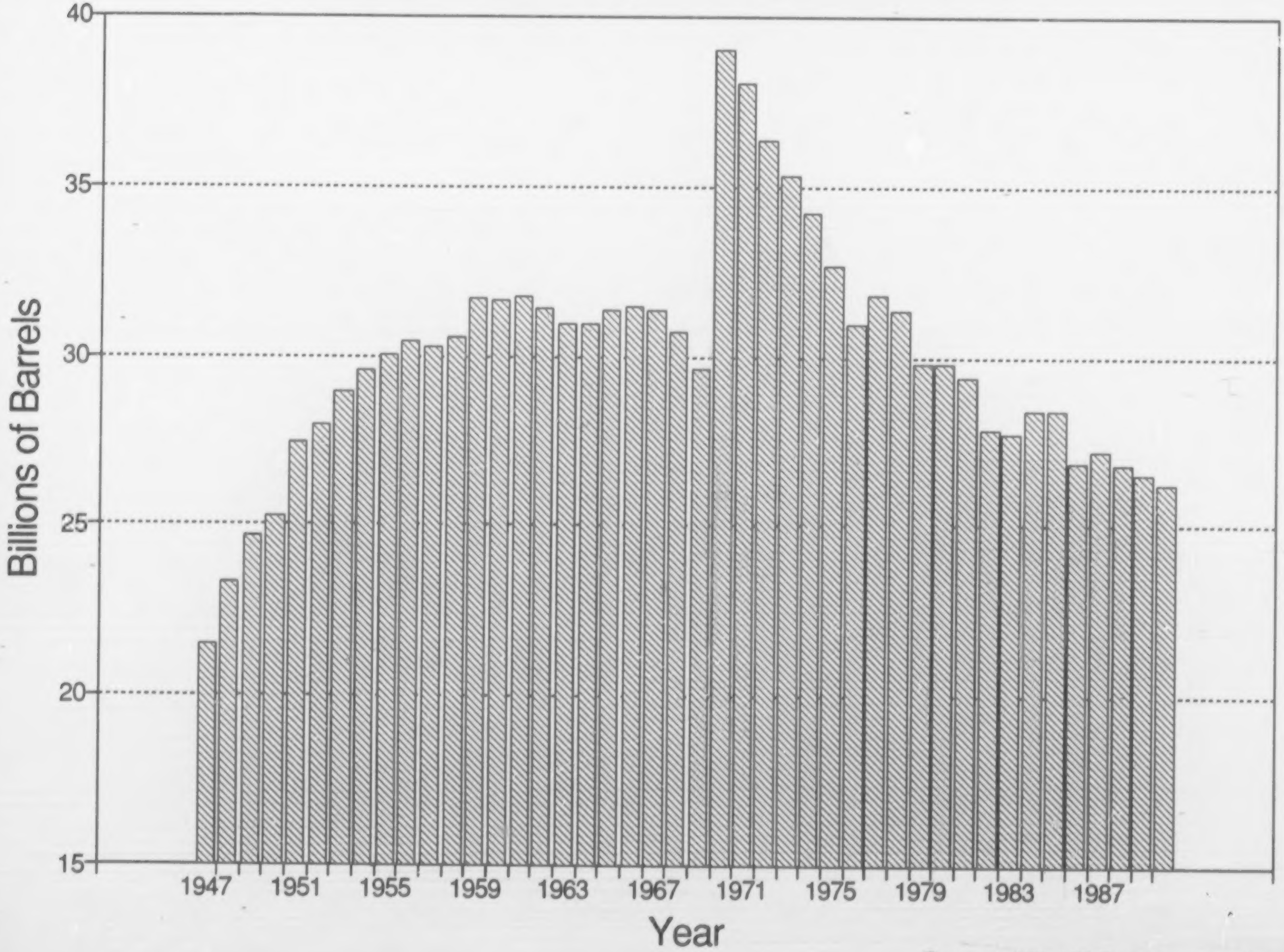
United States Crude Oil Reserves
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Revisions Extensions and Discoveries, During Year	Production During Year (a)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1989	26,825,000	2,262,000	2,586,000	26,501,000	10.2
1990	26,501,000	2,258,000	2,505,000	26,254,000	10.5

(a) Production is the amount originally estimated and used by API in prior reserves reports.
(b) Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968).
(c) Beginning in 1977, crude oil reserves estimates come from the Department of Energy. Therefore, reserves at year-end 1976 do not equal reserves at start of year 1977. These figures include crude oil only, i.e. they exclude lease condensate.

SOURCE: 1947-1976: American Petroleum Institute, Committee on Reserves and Productive Capacity.
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

U.S. CRUDE OIL RESERVES



Source: API, US Department of Energy

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	2.8	3.5	3.5	5.4	7.9	15.6	17.2	15.6	20.6	37.5	34.4	38.6	34.2
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	296.9	300.0	297.5	341.7	336.5	352.3	358.2	351.4	329.5	317.7	305.0	317.9	312.9
California	3,295.0	3,763.6	3,822.8	3,733.6	3,760.9	3,854.2	3,919.4	3,888.6	3,801.4	3,771.4	3,759.8	3,866.4	3,762.5
Colorado	381.9	365.5	344.8	339.5	325.2	305.7	319.3	328.7	334.0	363.8	309.9	392.1	381.0
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Illinois	355.4	393.4	468.1	564.2	646.3	619.5	624.8	658.4	691.2	700.0	654.7	607.6	594.4
Indiana	46.0	49.1	50.2	57.4	50.7	55.5	62.1	67.2	61.5	67.7	66.7	71.5	74.0
Kansas	562.7	674.4	738.4	732.2	791.9	917.0	913.3	978.4	998.1	992.2	947.5	922.4	917.5
Kentucky	64.6	59.2	56.2	55.9	58.5	55.6	81.7	85.3	107.5-	148.4	138.0	126.4	136.3
Louisiana	1,791.0	1,869.3	1,909.8	2,185.1	2,284.8	2,557.5	2,759.7	2,961.7	3,255.3	3,675.4	3,857.6	4,044.0	4,660.1
Michigan	69.7	69.4	66.5	78.7	64.1	57.4	60.7	59.6	58.9	55.3	49.5	45.0	55.3
Mississippi	303.7	365.4	402.9	385.7	385.4	358.8	350.1	412.3	387.7	368.2	359.6	378.7	389.3
Montana	114.7	118.9	112.4	111.3	108.4	156.2	209.0	272.4	298.9	331.4	320.0	337.8	309.3
Nebraska	0.9	0.9	1.6	9.7	15.9	21.8	25.6	38.0	57.7	62.9	63.1	69.2	80.6
New Mexico	530.5	552.2	592.2	592.0	611.6	733.4	814.9	805.9	819.7	835.4	831.7	894.1	1,025.8
New York	71.5	67.1	62.9	58.8	57.1	52.9	49.1	45.8	42.9	40.2	37.5	35.8	34.2
North Dakota	--	--	--	--	5.0	76.2	128.3	134.3	185.5	195.8	258.2	314.1	381.9
Ohio	29.0	28.5	27.7	27.3	26.4	27.4	31.8	36.8	56.0	63.6	68.2	70.8	74.1
Oklahoma	953.0	1,250.4	1,329.9	1,396.9	1,476.5	1,557.6	1,752.2	1,955.3	2,016.0	2,009.8	1,941.5	1,898.1	1,864.7
Pennsylvania	122.7	109.8	103.4	106.4	95.0	121.7	111.1	101.8	93.3	134.7	126.5	119.8	113.6
South Dakota	--	--	--	--	--	--	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	11,777.5	12,484.2	13,509.7	13,581.6	15,315.0	14,916.2	14,998.6	14,982.0	14,933.5	14,783.4	14,555.1	14,322.2	14,859.7
Utah	(a)	(a)	15.8	21.6	29.7	42.4	37.9	36.4	37.1	61.4	140.0	198.6	194.5
West Virginia	36.1	36.7	38.0	39.0	38.8	37.2	36.6	37.3	47.0	51.2	52.5	52.1	51.3
Wyoming	679.3	715.8	691.6	841.0	973.4	1,064.7	1,279.1	1,303.6	1,373.6	1,363.2	1,419.7	1,408.7	1,402.9
Miscellaneous	3.0	3.0	3.6	3.4	3.1	3.8	4.1	3.8	5.2	4.5	3.6	4.0	9.2
TOTAL U.S.(b,c)	21,487.7	23,380.4	24,649.5	25,268.4	27,468.0	27,960.6	28,944.8	29,560.7	30,012.2	30,434.6	30,300.4	30,535.9	31,719.3

See notes and sources at end of table

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	33.3	35.9	37.5	45.1	49.9	66.4	65.3	78.8	72.7	67.1	65.3	61.5	56.7
Alaska	(a)	(a)	(a)	74.9	82.9	159.8	321.4	380.8	373.2	432.3	10,148.8	10,116.2	10,096.3
Arkansas	302.0	280.7	246.8	225.3	205.2	201.0	181.3	176.4	159.3	127.3	129.6	117.6	113.1
California	3,658.5	3,614.7	3,648.4	3,599.7	4,125.5	4,567.5	4,608.0	4,369.4	4,340.7	4,242.7	3,984.0	3,705.8	3,553.7
Colorado	363.9	419.7	388.3	368.4	346.3	327.2	343.5	339.9	420.5	400.6	389.0	332.8	326.4
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	74.8	204.1	208.1
Illinois	555.9	503.2	460.2	416.6	391.5	371.2	362.3	335.5	313.8	272.1	228.7	208.8	174.9
Indiana	66.3	62.0	61.0	63.4	60.6	57.6	47.9	47.2	40.2	41.3	37.0	30.9	29.4
Kansas	883.8	878.0	862.4	841.3	796.5	751.6	726.4	625.1	600.8	566.0	539.3	501.6	453.4
Kentucky	128.9	116.5	108.6	100.5	117.9	107.6	101.2	94.3	79.5	73.1	61.4	52.5	48.2
Louisiana	4,785.4	4,931.2	5,086.6	5,088.6	5,162.5	5,245.8	5,408.4	5,455.9	5,608.2	5,689.2	5,710.3	5,399.0	5,028.5
Michigan	77.8	78.8	75.0	68.5	58.3	52.8	70.7	62.5	55.3	51.5	45.6	58.8	62.0
Mississippi	407.1	401.2	388.4	384.9	356.7	359.8	374.1	356.7	325.6	360.2	354.7	342.4	312.5
Montana	266.7	250.9	248.9	271.3	251.6	274.1	281.6	308.0	345.1	275.8	241.5	228.2	241.2
Nebraska	86.2	100.4	93.8	83.6	71.1	70.7	57.1	63.2	55.3	46.8	40.9	36.1	30.6
New Mexico	1,083.7	1,090.2	1,064.6	1,010.7	956.8	895.2	1,024.6	925.8	864.5	839.9	760.9	656.9	582.6
New York	32.4	27.7	23.1	18.4	13.6	11.9	10.2	14.6	13.0	11.8	10.6	9.8	9.2
North Dakota	430.5	413.1	403.5	389.2	377.2	395.1	321.3	290.3	287.4	234.5	192.4	174.0	166.0
Ohio	74.7	75.8	77.3	87.8	99.6	100.9	101.2	114.2	132.3	127.4	127.9	129.1	127.4
Oklahoma	1,790.5	1,787.5	1,728.3	1,628.1	1,585.9	1,517.5	1,518.2	1,458.9	1,394.7	1,390.0	1,351.4	1,404.6	1,303.0
Pennsylvania	107.6	102.0	96.7	91.7	86.6	76.8	72.4	63.3	59.2	54.7	51.3	47.1	37.3
South Dakota	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	14,758.5	14,849.6	14,648.3	14,573.1	14,299.8	14,303.1	14,077.1	14,494.1	13,809.9	13,063.2	13,195.5	13,023.5	12,144.1
Utah	208.5	218.1	197.7	219.6	219.5	196.9	213.4	201.0	180.0	195.3	181.5	165.8	244.4
West Virginia	51.4	50.9	56.2	57.3	58.7	55.2	56.6	56.2	53.6	53.5	53.2	51.7	34.0
Wyoming	1,427.4	1,380.5	1,297.0	1,254.3	1,204.5	1,168.9	1,072.5	1,043.5	1,101.3	996.6	1,017.4	997.0	949.8
Miscellaneous	32.3	89.7	90.5	7.5	11.9	17.9	15.3	20.9	20.8	18.9	8.4	7.3	6.5
TOTAL U.S.(b,c)	31,613.2	31,758.5	31,389.2	30,970.0	30,990.5	31,352.4	31,452.1	31,376.7	30,707.1	29,631.9	39,001.3	38,063.0	36,339.0

See notes and sources at end of table

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	53.6	68.7	61.0	53.3	85.0	74.0	45.0	54.0	55.0	54.0	51.0	68.0	69.0
Alaska	10,112.2	10,094.1	10,037.3	9,785.7	8,413.0	9,384.0	8,875.0	8,751.0	8,283.0	7,406.0	7,307.0	7,563.0	7,056.0
Arkansas	105.6	106.3	95.7	93.4	116.0	111.0	107.0	107.0	113.0	107.0	120.0	114.0	97.0
California	3,488.1	3,557.0	3,647.5	3,589.9	5,005.0	4,974.0	5,265.0	5,470.0	5,441.0	5,405.0	5,348.0	5,707.0	5,801.0
Colorado	304.8	289.3	276.1	251.8	230.0	194.0	159.0	183.0	147.0	169.0	186.0	198.0	198.0
Florida	183.9	302.7	262.5	249.6	213.0	168.0	128.0	134.0	109.0	97.0	78.0	82.0	77.0
Illinois	152.3	159.8	161.0	155.3	150.0	158.0	136.0	113.0	129.0	150.0	135.0	153.0	136.0
Indiana	26.6	24.4	22.0	22.3	20.0	29.0	40.0	23.0	23.0	28.0	34.0	33.0	35.0
Kansas	401.1	395.1	364.4	361.6	349.0	303.0	377.0	310.0	371.0	378.0	344.0	377.0	423.0
Kentucky	40.0	36.6	39.3	38.2	30.0	40.0	25.0	35.0	29.0	36.0	35.0	41.0	42.0
Louisiana	4,576.8	4,226.5	3,827.2	3,470.6	3,600.0	3,448.0	2,780.0	2,751.0	2,985.0	2,728.0	2,707.0	2,661.0	2,642.0
Michigan	72.4	82.3	93.3	138.8	233.0	220.0	159.0	205.0	240.0	184.0	209.0	180.0	191.0
Mississippi	291.0	261.4	231.2	214.2	241.0	250.0	238.0	202.0	209.0	223.0	205.0	201.0	184.0
Montana	219.3	207.4	164.0	152.7	175.0	158.0	152.0	179.0	186.0	216.0	234.0	224.0	232.0
Nebraska	28.2	26.8	28.4	31.3	22.0	30.0	25.0	46.0	41.0	32.0	44.0	46.0	42.0
New Mexico	643.0	625.0	588.1	535.5	605.0	579.0	563.0	547.0	555.0	563.0	576.0	660.0	685.0
New York	8.3	10.9	10.0	9.2	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
North Dakota	179.5	172.8	158.2	149.6	155.0	162.0	211.0	214.0	223.0	237.0	258.0	260.0	255.0
Ohio	124.9	123.9	121.3	125.3	74.0	69.0	82.0	116.0	112.0	111.0	130.0	116.0	79.0
Oklahoma	1,271.0	1,232.4	1,239.7	1,186.6	1,109.0	979.0	1,014.0	930.0	950.0	971.0	931.0	940.0	935.0
Pennsylvania	39.6	50.4	46.0	50.6	57.0	27.0	33.0	35.0	32.0	37.0	41.0	40.0	38.0
South Dakota	(a)	(a)	1.9	1.5	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	1.5	1.9	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	11,756.6	11,001.5	10,080.0	9,226.3	9,751.0	8,911.0	8,284.0	8,206.0	8,093.0	7,616.0	7,539.0	7,557.0	7,894.0
Utah	264.5	250.6	208.3	183.2	252.0	188.0	201.0	198.0	190.0	173.0	187.0	172.0	276.0
West Virginia	32.1	32.2	31.4	30.0	21.0	30.0	48.0	30.0	30.0	48.0	49.0	76.0	40.0
Wyoming	916.8	903.4	877.4	827.8	851.0	845.0	841.0	928.0	840.0	856.0	957.0	954.0	951.0
Miscellaneous	7.6	8.5	5.4	6.2	23.0	24.0	22.0	38.0	40.0	33.0	30.0	23.0	35.0
TOTAL U.S.(b,c)	35,299.8	34,250.0	32,682.1	30,942.2	31,780.0	31,355.0	29,810.0	29,805.0	29,426.0	27,858.0	27,735.0	28,446.0	28,416.0

See notes and sources at end of table

Section II
Table 3c

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1986	1987	1988	1989	1990
Alabama	55.0	55.0	54.0	43.0	44.0
Alaska	6,875.0	7,378.0	6,959.0	6,674.0	6,524.0
Arkansas	88.0	82.0	77.0	66.0	60.0
California	4,734.0	4,709.0	4,879.0	4,816.0	4,658.0
Colorado	207.0	272.0	257.0	359.0	305.0
Florida	67.0	61.0	59.0	50.0	42.0
Illinois	135.0	153.0	143.0	123.0	131.0
Indiana	32.0	23.0	22.0	16.0	12.0
Kansas	312.0	357.0	327.0	338.0	321.0
Kentucky	31.0	25.0	34.0	33.0	33.0
Louisiana	826.0	807.0	800.0	745.0	705.0
Michigan	146.0	151.0	132.0	128.0	124.0
Mississippi	199.0	202.0	221.0	218.0	227.0
Montana	248.0	246.0	241.0	225.0	221.0
Nebraska	45.0	33.0	42.0	32.0	26.0
New Mexico	644.0	654.0	661.0	665.0	687.0
New York	(a)	(a)	(a)	(a)	(a)
North Dakota	218.0	215.0	216.0	246.0	285.0
Ohio	72.0	66.0	64.0	56.0	65.0
Oklahoma	874.0	788.0	796.0	789.0	734.0
Pennsylvania	26.0	26.0	27.0	26.0	22.0
South Dakota	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)
Texas	7,152.0	7,112.0	7,043.0	6,966.0	7,106.0
Utah	269.0	284.0	260.0	246.0	249.0
West Virginia	37.0	34.0	33.0	30.0	31.0
Wyoming	849.0	854.0	815.0	825.0	794.0
Miscellaneous	33.0	30.0	34.0	39.0	43.0
TOTAL U.S.(b,c)	26,889.0	27,256.0	26,825.0	26,501.0	26,254.0

(a) Included in Miscellaneous.

(b) Totals may not add due to independent rounding.

(c) 1986 includes 2,715 from federal offshore waters, 1987 = 2,639, 1988 = 2,629, 1989 = 2,747, 1990 = 2,805

SOURCE: 1947-1976: API, AGA and CPA, Reserves of Crude Oil, Natural Gas Liquids and Natural Gas in the United States and Canada, Annual Reports
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves, Annuals.

Section II
Table 4

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1975	Nation	1976	Nation	1977	Nation	1978
1. Saudi Arabia(a)	164,500,000	1. Saudi Arabia(a)	148,600,000	1. Saudi Arabia(a)	151,400,000	1. Saudi Arabia(a)	150,000,000
2. U.S.S.R.	83,400,000	2. U.S.S.R.	80,400,000	2. U.S.S.R.	78,100,000	2. U.S.S.R.	75,000,000
3. Kuwait(a)	72,800,000	3. Kuwait(a)	68,000,000	3. Kuwait(a)	67,400,000	3. Kuwait(a)	67,000,000
4. Iran	66,000,000	4. Iran	64,500,000	4. Iran	63,000,000	4. Iran	62,000,000
5. Iraq	35,000,000	5. Iraq	34,300,000	5. Iraq	34,000,000	5. Iraq	34,500,000
6. United States	34,249,956	6. United States	32,682,127	6. United Arab Emirates	31,200,000	6. United Arab Emirates	32,425,000
7. United Arab Emirates	33,920,000	7. United Arab Emirates	32,200,000	7. United States	33,502,000	7. United States	31,780,000
8. Libya	26,600,000	8. Libya	26,100,000	8. Libya	25,500,000	8. Libya	25,000,000
9. China	25,000,000	9. Nigeria	20,200,000	9. China	20,000,000	9. China	20,000,000
10. Nigeria	20,900,000	10. China	20,000,000	10. Nigeria	19,500,000	10. United Kingdom	19,000,000
11. United Kingdom	15,700,000	11. Venezuela	17,700,000	11. United Kingdom	16,800,000	11. Nigeria	18,700,000
12. Venezuela	15,000,000	12. United Kingdom	16,000,000	12. Venezuela	15,270,000	12. Venezuela	18,200,000
13. Indonesia	15,000,000	13. Indonesia	14,000,000	13. Indonesia	10,500,000	13. Mexico	14,000,000
14. Mexico	13,582,000	14. Mexico	9,500,000	14. Mexico	7,000,000	14. Indonesia	10,000,000
15. Algeria	7,700,000	15. Algeria	7,370,000	15. Algeria	6,800,000	15. Algeria	6,600,000
16. Norway	7,300,000	16. Norway	7,000,000	16. Canada	6,257,082	16. Norway	6,000,000
17. Canada	7,171,229	17. Canada	6,653,002	17. Oman	5,800,000	17. Canada	5,970,872
18. Oman	6,000,000	18. Oman	5,900,000	18. Qatar	5,700,000	18. Oman	5,650,000
19. Qatar	6,000,000	19. Qatar	5,850,000	19. Norway	5,660,000	19. Qatar	5,600,000
20. Congo Republic	4,874,000	20. Egypt	3,900,000	20. India	3,000,000	20. India	3,000,000
TOTAL WORLD	712,418,535	TOTAL WORLD	657,920,849	TOTAL WORLD	642,639,400	TOTAL WORLD	647,998,800

See notes and sources at end of table

Section II
Table 4a

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1979	Nation	1980	Nation	1981	Nation	1982
1. Saudi Arabia(a)	165,700,000	1. Saudi Arabia(a)	163,350,000	1. Saudi Arabia(a)	165,000,000	1. Saudi Arabia(a)	164,600,000
2. U.S.S.R.	71,000,000	2. U.S.S.R.	67,000,000	2. Kuwait(a)	64,900,000	2. Kuwait(a)	64,480,000
3. Kuwait(a)	66,200,000	3. Kuwait(a)	65,400,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000
4. Iran	59,000,000	4. Iran	58,000,000	4. Iran	57,500,000	4. Iran	57,000,000
5. Iraq	32,100,000	5. Mexico	31,250,000	5. Mexico	44,000,000	5. Mexico	56,990,000
6. United States	31,355,000	6. Iraq	31,000,000	6. United Arab Emirates	30,410,000	6. United Arab Emirates	32,176,000
7. United Arab Emirates	31,316,000	7. United States	29,810,000	7. Iraq	30,000,000	7. United States	29,426,000
8. Libya	24,300,000	8. United Arab Emirates	29,411,300	8. United States	29,805,000	8. Iraq	29,700,000
9. China	20,000,000	9. Libya	23,500,000	9. Libya	23,000,000	9. Libya	22,600,000
10. Nigeria	18,200,000	10. China	20,000,000	10. China	20,500,000	10. Venezuela	20,300,000
11. Venezuela	18,000,000	11. Venezuela	17,870,000	11. Venezuela	17,950,000	11. China	19,895,000
12. Mexico	16,000,000	12. Nigeria	17,400,000	12. Nigeria	16,700,000	12. Nigeria	16,500,000
13. United Kingdom	16,000,000	13. United Kingdom	15,400,000	13. United Kingdom	14,800,000	13. United Kingdom	14,800,000
14. Indonesia	10,200,000	14. Indonesia	9,600,000	14. Indonesia	9,500,000	14. Indonesia	9,800,000
15. Canada	6,860,000	15. Algeria	8,440,000	15. Algeria	8,200,000	15. Algeria	8,080,000
16. Algeria	6,300,000	16. Canada	6,800,000	16. Canada	6,400,000	16. Norway	7,620,000
17. Norway	5,900,000	17. Norway	5,750,000	17. Norway	5,500,000	17. Canada	7,300,000
18. Qatar	4,000,000	18. Qatar	3,760,000	18. Qatar	3,585,000	18. Qatar	3,434,000
19. Egypt	3,200,000	19. Egypt	3,100,000	19. Malaysia	3,000,000	19. Egypt	2,930,000
20. India	2,900,000	20. Malaysia	2,800,000	20. Egypt(2)	2,900,000	20. Malaysia	2,800,000
TOTAL WORLD	645,322,800	TOTAL WORLD	644,933,000	TOTAL WORLD	651,929,712	TOTAL WORLD	670,350,150

See notes and sources at end of table

Section II
Table 4b

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1983	Nation	1984	Nation	1985	Nation	1986
1. Saudi Arabia(a)	162,400,000	1. Saudi Arabia(a)	166,000,000	1. Saudi Arabia(a)	169,000,000	1. Saudi Arabia(a)	168,800,000
2. Kuwait(a)	64,230,000	2. Kuwait(a)	63,900,000	2. Kuwait(a)	90,000,000	2. Kuwait(a)	89,774,000
3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	61,000,000
4. Iran	55,308,000	4. Iran	51,000,000	4. Mexico	48,600,000	4. Mexico	49,300,000
5. Mexico	48,300,000	5. Mexico	48,000,000	5. Iran	48,500,000	5. Iran	47,876,000
6. Iraq	41,000,000	6. Iraq	43,000,000	6. Iraq	44,500,000	6. Iraq	44,110,000
7. United Arab Emirates	32,354,000	7. United Arab Emirates	32,240,000	7. United Arab Emirates	32,390,000	7. United Arab Emirates	32,890,000
8. United States	27,858,000	8. United States	27,735,000	8. United States	28,446,000	8. United States	28,416,000
9. Libya	21,500,000	9. Venezuela	24,850,000	9. Venezuela	25,845,000	9. Venezuela	25,591,000
10. Venezuela	21,500,000	10. Libya	21,270,000	10. Libya	21,100,000	10. Libya	21,300,000
11. China	19,485,000	11. China	19,100,000	11. China	19,100,000	11. China	18,420,000
12. Nigeria	16,750,000	12. Nigeria	16,550,000	12. Nigeria	16,650,000	12. Nigeria	16,600,000
13. United Kingdom	13,900,000	13. United Kingdom	13,150,000	13. United Kingdom	13,590,000	13. United Kingdom	13,000,000
14. Indonesia	9,550,000	14. Algeria	9,220,000	14. Algeria	9,000,000	14. Norway	10,900,000
15. Algeria	9,440,000	15. Indonesia	9,100,000	15. Indonesia	8,650,000	15. Algeria	8,820,000
16. Canada	7,020,000	16. Norway	7,660,000	16. Norway	8,300,000	16. Indonesia	8,500,000
17. Norway	6,800,000	17. Canada	6,730,000	17. Canada	7,075,000	17. Canada	6,500,000
18. Qatar	3,425,000	18. India	3,485,000	18. Oman	3,500,000	18. Oman	4,000,000
19. Malaysia	3,325,000	19. Egypt	3,450,000	19. India	3,500,000	19. Egypt	3,850,000
20. Egypt	3,325,000	20. Qatar	3,330,000	20. Qatar	3,350,000	20. India	3,736,000
TOTAL WORLD	668,262,406	TOTAL WORLD	669,737,600	TOTAL WORLD	699,813,400	TOTAL WORLD	700,566,560

See notes and sources at end of table

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1987	Nation	1988	Nation	1989	Nation	1990
1. Saudi Arabia	166,573,900	1. Saudi Arabia	166,980,000	1. Saudi Arabia	169,970,000	1. Saudi Arabia	254,959,000
2. Kuwait	91,916,000	2. Iraq	100,000,000	2. Iraq	100,000,000	2. Iraq	100,000,000
3. U.S.S.R.	59,000,000	3. United Arab Emirates	97,705,000	3. United Arab Emirates	97,705,000	3. United Arab Emirates	97,705,000
4. Mexico	54,653,000	4. Iran	92,850,000	4. Iran	92,850,000	4. Kuwait	94,525,000
5. Iran	48,800,000	5. Kuwait	91,920,000	5. Kuwait	91,920,000	5. Iran	92,860,000
6. Iraq	47,100,000	6. U.S.S.R.	59,000,000	6. U.S.S.R.	58,500,000	6. Venezuela	58,504,000
7. United Arab Emirates	32,850,000	7. Venezuela	56,300,000	7. Venezuela	58,083,900	7. U.S.S.R.	58,400,000
8. United States	26,889,000	8. Mexico	48,610,000	8. Mexico	54,110,000	8. Mexico	56,365,000
9. Venezuela	25,000,000	9. United States	27,256,000	9. United States	26,825,000	9. United States	26,501,000
10. Libya	21,300,000	10. Libya	21,000,000	10. China	23,500,000	10. China	24,000,000
11. China	18,400,000	11. China	18,400,000	11. Libya	22,000,000	11. Libya	22,800,000
12. Nigeria	16,000,000	12. Nigeria	15,980,000	12. Nigeria	16,000,000	12. Nigeria	16,000,000
13. Norway	10,500,000	13. Norway	14,800,000	13. Norway	10,435,000	13. Norway	11,546,204
14. United Kingdom	9,000,000	14. Algeria	8,500,000	14. Algeria	8,400,000	14. Algeria	9,200,000
15. Algeria	8,800,000	15. Indonesia	8,400,000	15. Indonesia	8,250,000	15. Indonesia	8,200,000
16. Indonesia	8,300,000	16. Canada	6,825,000	16. Canada	6,785,514	16. India	7,516,400
17. Canada	6,850,000	17. United Kingdom	5,200,000	17. India	6,354,200	17. Canada	6,133,495
18. India	4,202,000	18. Egypt	4,300,000	18. United Kingdom	5,175,000	18. Neutral Zone	5,200,000
19. Oman	4,032,000	19. India	4,250,000	19. Egypt	4,300,000	19. Qatar	4,500,000
20. Egypt	3,600,000	20. Oman	4,012,000	20. Oman	4,071,160	20. Egypt	4,500,000
TOTAL WORLD	699,778,700	TOTAL WORLD	889,344,500	TOTAL WORLD	907,767,751	TOTAL WORLD	1,002,212,623

See notes and sources at end of table

Section II
Table 4d

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1991
1. Saudi Arabia	257,504,000
2. Iraq	100,000,000
3. United Arab Emirates	97,700,000
4. Kuwait	94,525,000
5. Iran	92,850,000
6. Venezuela	59,040,000
7. U.S.S.R	57,000,000
8. Mexico	51,983,000
9. United States	26,254,000
10. China	24,000,000
11. Libya	22,800,000
12. Nigeria	17,100,000
13. Indonesia	11,050,000
14. Algeria	9,200,000
15. India	7,997,100
16. Norway	7,609,412
17. Canada	5,782,949
18. Neutral Zone	5,000,000
19. Qatar	4,500,000
20. Egypt	4,500,000
TOTAL WORLD	999,113,472

Nation	1992
1. Saudi Arabia	257,842.0
2. Iraq	100,000.0
3. United Arab Emirates	97,700.0
4. Kuwait	94,000.0
5. Iran	92,860.0
6. Venezuela	59,100.0
7. U.S.S.R	57,000.0
8. Mexico	51,298.0
9. United States	26,250.0
10. China	24,000.0
11. Libya	22,800.0
12. Nigeria	17,889.8
13. Algeria	9,200.0
14. Norway	7,609.4
15. Indonesia	6,581.3
16. India	6,126.7
17. Canada	5,587.8
18. Neutral Zone	5,000.0
19. Egypt	4,500.0
20. Oman	4,250.0
TOTAL WORLD	991,011.4

(a) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations. Neutral Zone reserves are not included in the above figures.

SOURCE: 1975-1976: United States: American Petroleum Institute, Committee on Reserves and Productive Capacity.
1977-1991: United States: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas Liquids and Natural Gas Reserves.
1975-1980: Canada: Canadian Petroleum Association
1975-1991: Other Nations, Oil and Gas Journal, "Worldwide Report" issue.
1992: All nations, Oil and Gas Journal, Worldwide Production Report.

USGS Estimates of United States Oil and Gas Reserves
(as of January 1,1987)

Region	Cumulative Production	Reserves		Undiscovered Recoverable Resources			Undiscovered Economically Recoverable Resources		
		Measured	Inferred and Indicated(a)	F95(d)	Mean(c)	F5(d)	F95(d)	Mean(c)	F5(d)
Onshore and State Waters									
1. Alaska									
Oil	6.1	6.9	6.4	3.6	13.2	31.3	1.1	7.9	23.8
Gas	3.8	32.7	3	15.6	57.9	138.6	0.2	1.2	3.7
2. Pacific Coast									
Oil	20.3	4.7	1.2	1.5	3.5	6.6	1.4	3.4	6.5
Gas	33.2	3.9	2.6	5.5	11	19.1	5.1	10.6	18.8
3. Colorado Plateau and Basin and Range									
Oil	3.1	0.6	0.4	0.5	1.5	3.4	0.4	1.5	3.3
Gas	24.7	17.1	4.9	9.6	21.3	39.3	9.4	21	38.9
4. Rocky Mountains and Great Plains									
Oil	7.1	1.2	1.3	2.7	4.5	6.9	2.2	3.8	6
Gas	13.1	7.6	3.6	7	15.2	27.8	6.2	14.2	26.5
5. West Texas and Eastern New Mexico									
Oil	30.2	5.4	3.8	1.5	2.6	4	1.4	2.4	3.8
Gas	82.2	16.7	12.9	11.9	20.1	31.3	11.2	19.3	30.3
6. Gulf Coast									
Oil	43.1	3.7	5.7	2.4	4.2	6.7	2.2	4	6.5
Gas	285.6	33.6	42.3	51.2	82.5	123.6	47.7	79.3	121.6
7. Mid-Continent									
Oil	17.3	1.1	1.4	1.2	1.9	2.7	1.1	1.7	2.5
Gas	145.4	37.5	18.3	16.2	28.7	46	15	26.8	43.1
8. Eastern Interior									
Oil	8.4	0.5	0.7	1.3	1.8	2.4	1.3	1.8	2.4
Gas	33.9	8.2	5	10.8	17.2	25.7	10.1	16.3	24.5
9. Atlantic Coast									
Oil	0.1	0.1	0.1	0.1	0.2	0.5	0.1	0.2	0.5
Gas	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1
Total Onshore and State Waters									
Oil	135.6	24.2	21.1	19.6	33.3	51.9	13.9	26.6	45.0
Gas	622.0	157.4	92.7	178.7	254.0	346.7	145.6	188.7	239.1
NGL	+ (b)	+ (b)	3.8	5.0	6.8	9.0	4.0	5.5	7.4
Federal Offshore									
1A. Alaska									
Oil	0.0	0.0	0.0	0.6	3.4	9.4	0.0	0.9	4.8
Gas	0.0	0.0	0.0	4.7	16.8	39.4	0.0	0.0	0.0

See notes and sources at end of table

USGS Estimates of United States Oil and Gas Reserves
(as of January 1,1987)

Region	Cumulative Production	Reserves		Undiscovered Recoverable Resources			Undiscovered Economically Recoverable Resources		
		Measured	Inferred and Indicated(a)	F95(d)	Mean(c)	F5(d)	F95(d)	Mean(c)	F5(d)
2A. Pacific Coast									
Oil	0.4	1.3	0.2 (a)	0.9	3.4	8.3	0.4	2.0	5.5
Gas	0.3	2.1	0.3 (a)	3.5	8.0	15.1	1.8	5.2	11.0
6A. Gulf of Mexico									
Oil	6.9	4.0	0.4 (a)	4.9	8.6	13.6	2.6	5.0	8.6
Gas	75.2	47.0	5.8 (a)	63.0	103.3	156.9	36.0	64.3	103.7
9A. Atlantic Coast									
Oil	0.0	0.0	0.0	0.1	0.7	2.3	0.0	0.2	0.8
Gas	0.0	0.0	0.0	6.8	17.0	33.7	0.0	4.5	9.8
Total Federal Offshore									
Oil	7.3	5.3	0.6 (a)	9.2	16.1	25.6	4	8.2	14.3
Gas	75.5	49.2	6.1 (a)	97.8	145.1	204.8	44.3	74	113.8
NGL	+ (b)	+ (b)	0.2	0.6	1.8	3.8	0.2	0.8	1.8
Total United States									
Oil	142.9	29.5	21.7	33.2	49.4	69.9	20.7	34.8	53.8
Gas	697.5	206.6	98.8	306.8	399.1	507.2	208.2	262.7	325.5
NGL	24.4	8.2	4.0	6.1	8.6	11.5	4.6	6.3	8.4

NOTE: Oil in billion barrels; gas in trillion feet; natural gas liquies in billion barrels. NGL shown only in total.
(a) Indicated reserves are included with measured reserves estimated by the Minerals Management Service.
(b) Not known.
(c) Mean value totals may not be equal to the sums of the constituent means because numbers have been independently rounded.
(d) Fractile values (F95,F5) are not additive. Gas includes both nonassociated and associated-dissolved gas. F95 represents a 19 in 20 chance and F5 represents a 1 in 20 chance of the occurrence of at least the amount tabulated.

SOURCE: U.S. Department of Interior, U.S. Geological Survey, Estimates of Undiscovered Conventional Oil and Gas Resources in the United States--A Part of the Nation's Energy Endowment, 1989

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Section III
Table 1

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
New-Field Wildcat Wells									
1947	275	1,434,351	119	662,513	3,086	12,509,723	3,480	14,606,587	11.3
1948	366	1,791,437	135	899,514	3,795	16,048,313	4,296	18,739,264	11.7
1949	364	1,813,650	142	973,124	3,943	15,372,983	4,449	18,159,757	11.4
1950	462	2,345,714	130	800,276	4,698	18,972,164	5,290	22,118,254	11.2
1951	515	2,784,458	169	1,046,805	5,505	24,116,951	6,189	27,948,214	11.1
1952	556	3,122,962	185	1,310,227	5,957	28,068,745	6,698	32,501,934	11.1
1953	581	3,288,855	193	1,244,946	6,151	29,321,262	6,925	33,855,063	11.2
1954	639	3,577,418	263	1,761,483	6,478	30,149,120	7,380	35,488,021	12.2
1955	659	3,667,073	260	1,664,789	7,186	33,654,112	8,105	38,985,974	11.3
1956	628	3,690,270	240	1,762,688	7,874	36,913,273	8,742	42,366,231	9.9
1957	590	3,403,283	282	2,099,922	7,142	33,600,397	8,014	39,103,602	10.9
1958	518	2,963,220	268	2,077,923	6,164	29,161,083	6,950	34,202,226	11.3
1959	466	2,710,157	306	2,113,934	6,259	30,635,114	7,031	35,459,205	11.0
1960	448	2,614,001	297	2,136,721	6,575	31,130,339	7,320	35,881,061	10.2
1961	429	2,304,472	316	2,373,465	6,164	30,733,007	6,909	35,410,944	10.8
1962	470	2,670,875	317	2,380,930	6,007	29,832,533	6,794	34,884,338	11.6
1963	529	2,629,952	240	1,550,207	5,801	29,371,086	6,570	33,551,245	11.7
1964	440	2,623,873	252	1,933,484	5,931	30,028,416	6,623	34,585,773	10.4
1965	397	2,279,545	234	1,849,272	5,544	27,933,474	6,175	32,062,291	10.2
1966	403	2,437,921	232	1,888,322	5,523	27,052,375	6,158	31,378,618	10.3
1967	371	2,255,638	189	1,496,083	4,700	24,255,198	5,260	28,006,919	10.6
1968	321	2,012,067	127	1.046,358	4,757	27,190,387	5,205	30,248,812	8.6
1969	344	2,237,551	191	1,669,263	5,421	31,511,973	5,956	35,418,787	9.0
1970 (a)	292	1,952,666	189	1,607,386	4,348	25,412,904	4,829	28,972,956	10.0
1971	246	1,616,540	229	1,716,792	4,161	24,366,037	4,636	27,699,369	10.2
1972	287	1,861,279	270	2,056,516	4,454	26,780,915	5,011	30,698,710	11.1
1973	299	1,874,576	451	3,111,795	4,346	25,631,606	5,096	30,617,977	14.7
1974	396	2,447,814	466	3,172,478	5,084	29,289,318	5,946	34,909,610	14.5
1975	437	2,918,538	486	3,593,502	5,315	31,198,873	6,238	37,710,913	14.8
1976	458	3,013,230	527	3,786,300	4,871	28,898,393	5,856	35,697,923	16.8
1977	458	2,839,680	534	3,868,753	5,170	30,636,898	6,162	37,345,331	16.1
1978	484	3,164,038	644	4,297,038	5,603	34,550,903	6,731	42,011,979	16.8
1979	532	3,468,220	688	4,947,501	5,203	31,941,489	6,423	40,357,210	19.0
1980	664	4,310,733	695	4,764,991	5,973	36,802,580	7,332	45,878,304	18.5
1981	868	6,030,600	720	5,593,603	7,563	47,904,317	9,151	59,528,520	17.4
1982	707	4,613,633	618	4,575,677	6,061	37,840,415	7,386	47,029,725	17.9
1983	508	3,169,330	486	3,101,355	5,063	29,167,196	6,057	35,437,881	16.4
1984	554	3,806,830	429	2,877,818	5,545	34,525,367	6,528	41,210,015	15.1
1985	414	2,890,672	358	2,618,903	4,858	31,087,959	5,630	36,597,534	13.7
1986	270	1,751,349	218	1,446,276	2,996	18,551,934	3,484	21,749,559	14.0
1987	279	1,780,312	229	1,504,975	3,007	17,145,266	3,515	20,430,553	14.5
1988	226	1,520,246	238	1,647,342	2,807	17,369,625	3,271	20,537,213	14.2
1989	152	1,011,720	215	1,386,366	2,277	13,495,104	2,644	15,893,190	13.9

See notes and sources at end of table

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
New-Field Wildcat Wells									
1990	215	1,560,298	192	1,359,376	2,208	13,503,591	2,615	16,423,265	15.6
1991	130	857,121	120	871,679	1,548	9,786,354	1,798	11,515,154	13.9

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
Total Exploratory									
1947	982	4,280,672	396	1,895,491	5,397	20,217,185	6,775	26,393,348	20.3
1948	1,098	4,883,179	365	2,306,271	6,550	25,561,647	8,013	32,751,097	18.3
1949	1,406	5,950,460	424	2,409,230	7,228	26,438,601	9,058	34,798,291	20.2
1950	1,583	6,861,758	431	2,356,021	8,292	30,957,394	10,306	40,175,173	19.5
1951	1,763	8,125,473	454	2,495,592	9,539	38,722,629	11,756	49,343,694	18.9
1952	1,776	8,490,701	559	3,393,813	10,090	43,730,875	12,425	55,615,389	18.8
1953	1,981	9,431,700	699	3,952,118	10,633	47,279,793	13,313	60,663,611	20.1
1954	1,985	9,409,404	726	4,399,196	10,389	45,791,944	13,100	59,600,544	20.7
1955	2,236	10,774,397	874	5,212,258	11,832	53,219,667	14,942	69,206,322	20.8
1956	2,267	11,110,534	822	5,179,111	13,118	58,047,439	16,207	74,337,084	19.1
1957	1,945	9,794,182	865	5,966,961	11,904	53,420,086	14,714	69,181,229	19.1
1958	1,745	8,712,007	822	5,472,151	10,632	47,299,753	13,199	61,483,911	19.4
1959	1,702	8,544,972	912	6,031,180	10,577	48,676,369	13,191	63,252,521	19.8
1960	1,321	6,829,122	868	5,466,439	9,515	43,535,075	11,704	55,830,636	18.7
1961	1,157	5,899,555	813	5,249,616	9,022	38,054,853	10,992	49,204,024	17.9
1962	1,211	6,205,402	771	5,187,452	8,815	44,103,834	10,797	55,496,688	18.4
1963	1,314	6,409,095	664	4,229,802	8,686	42,846,565	10,664	53,485,462	18.5
1964	1,219	6,715,355	577	4,203,534	8,951	42,655,665	10,747	53,574,554	16.7
1965	946	5,365,758	515	3,757,004	8,005	45,319,365	9,466	54,442,127	15.4
1966	1,030	5,880,029	578	4,881,198	8,705	44,461,934	10,313	55,223,161	15.6
1967	986	5,677,675	532	3,978,526	7,360	38,182,439	8,878	47,838,640	17.1
1968	954	5,642,235	486	3,740,781	7,439	41,575,022	8,879	50,958,038	16.2
1969	1,084	6,563,032	616	4,984,622	8,001	45,918,308	9,701	57,465,962	17.5
1970 (a)	763	4,729,423	478	3,666,020	6,195	35,135,039	7,436	43,530,482	16.7
1971	664	3,785,858	472	3,612,832	5,995	34,563,763	7,131	41,962,453	15.9
1972	690	4,042,124	659	4,872,314	6,202	36,364,835	7,551	45,279,273	17.9
1973	654	4,046,218	1,079	7,074,241	6,038	34,928,875	7,771	46,049,334	22.3
1974	870	5,068,782	1,205	7,741,846	6,894	38,861,593	8,969	51,672,221	23.1
1975	991	5,822,068	1,261	8,468,203	7,207	40,755,363	9,459	55,045,634	23.8
1976	1,100	6,493,760	1,361	9,187,178	6,856	38,211,252	9,317	53,892,190	26.4
1977	1,181	6,870,706	1,557	10,204,224	7,402	41,136,466	10,140	58,211,396	27.0
1978	1,189	7,098,457	1,786	11,780,690	8,055	46,616,063	11,030	65,495,210	27.0
1979	1,335	7,991,579	1,921	12,634,380	7,479	42,736,704	10,735	63,362,663	30.3
1980	1,777	10,109,549	2,085	13,710,438	9,008	49,992,439	12,870	73,812,426	30.0
1981	2,661	15,418,060	2,522	16,996,454	12,247	68,653,990	17,430	101,068,504	29.7
1982 (b)	2,481	13,415,348	2,172	14,713,785	11,229	60,301,560	15,882	88,430,693	29.3
1983	2,129	10,544,047	1,654	10,235,772	10,062	48,472,448	13,845	69,252,267	27.3
1984	2,334	12,621,000	1,588	9,943,000	11,216	58,759,000	15,138	81,323,000	25.9
1985	1,724	10,068,000	1,283	8,694,000	9,201	49,571,000	12,208	68,333,000	24.6

See notes and sources at end of table

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
	Total Exploratory								
1986	993	5,990,000	749	5,082,000	5,414	29,973,000	7,156	41,045,000	24.3
1987	894	5,294,000	708	4,693,000	5,301	27,370,000	6,903	37,357,000	23.2
1988	813	4,924,000	692	4,706,000	4,845	27,050,000	6,350	36,680,000	23.7
1989	600	3,580,000	676	4,375,000	3,975	21,812,000	5,251	29,767,000	24.3
1990	637	4,238,000	638	4,391,000	3,779	21,628,000	5,054	30,257,000	25.2
1991	551	3,422,000	491	3,301,000	3,274	18,700,000	4,316	25,423,000	24.1

(a) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970, the statistics show the year in which the wells were completed regardless of the time frame in which they were reported to API.

(b) Data beginning with 1982 are for estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15d (state data), which represent reported completions.

SOURCE: 1947-1966: American Association of Petroleum Geologists.
1967-1969: API, Quarterly Review of Drilling Statistics.
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: API, Quarterly Completions Reports.

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total	Footage
Development Wells(a)								
1947	17,017		2,909		4,141		24,067	87,667,652
1948	21,487		2,532		5,476		29,495	104,640,903
1949	20,636		2,463		5,499		28,598	103,204,709
1950	22,847		2,412		6,465		31,724	119,112,827
1951	21,690		2,576		7,114		31,380	122,987,306
1952	21,690		2,696		7,528		31,914	131,574,611
1953	23,781		3,107		7,816		34,704	138,175,389
1954	27,788		3,251		8,779		39,818	159,385,456
1955	29,331		2,739		8,910		40,980	157,063,678
1956	28,463		3,721		8,720		40,904	161,564,916
1957	26,067		3,755		9,079		38,901	152,719,310
1958	22,833		3,981		8,411		35,225	136,740,181
1959	24,098		4,117		8,688		36,903	145,978,895
1960	19,865		4,390		8,059		32,314	134,872,036
1961	19,944		4,851		8,084		32,879	142,912,090
1962	20,038		5,077		7,867		32,982	143,061,953
1963	18,974		4,087		7,661		30,722	130,871,538
1964	19,401		4,278		8,537		32,216	136,347,316
1965	17,815		4,209		8,020		30,044	126,984,888
1966	15,417	59,562,661	3,589	19,562,196	7,065	28,097,191	26,071	107,222,048
1967	14,343	52,955,743	3,127	17,601,654	5,886	22,960,426	23,356	93,517,823
1968	13,377	53,874,620	2,970	16,975,492	5,373	23,162,297	21,720	94,012,409
1969	13,284	55,018,970	3,467	19,177,390	5,735	25,445,537	22,486	99,641,897
1970 (c)	12,280	52,101,320	3,553	19,950,845	4,904	22,976,880	20,737	95,029,045
1971	11,239	45,271,862	3,511	19,807,020	4,387	20,214,617	19,137	85,293,499
1972	10,747	45,441,840	4,825	25,384,401	4,811	22,691,048	20,383	93,517,289
1973	9,597	40,712,974	5,896	31,137,367	4,428	21,525,063	19,921	93,375,404
1974	12,794	47,001,530	5,963	30,739,691	5,311	24,362,957	24,068	102,104,178
1975	15,988	61,103,799	6,908	36,012,511	6,529	28,878,049	29,425	125,994,359
1976	16,597	62,333,936	8,077	40,010,511	6,949	31,052,949	31,623	133,397,396
1977	17,519	68,320,374	10,562	53,295,651	7,634	35,868,457	35,715	157,484,482
1978	17,876	69,522,882	12,619	63,809,274	8,536	39,558,882	39,031	172,891,038
1979	19,354	74,150,995	13,245	67,240,506	8,556	38,931,266	41,155	180,322,767
1980	30,343	113,154,164	15,047	76,641,633	11,226	47,836,614	56,616	237,632,411
1981	39,859	153,287,896	17,220	88,782,627	14,725	63,381,426	71,804	305,451,949
1982 (d)	36,771	134,817,629	16,638	90,474,536	14,598	61,660,061	68,007	286,952,226
1983	35,267	125,726,889	12,851	66,429,973	13,775	55,208,335	61,893	247,365,197
1984	42,138	155,025,000	13,374	71,706,000	14,333	60,742,000	69,845	287,473,000
1985	34,734	132,253,000	11,634	62,200,000	12,230	53,992,000	58,598	248,445,000
1986	17,605	68,614,000	7,306	37,776,000	6,948	30,206,000	31,859	136,596,000
1987	15,547	60,599,000	7,406	38,305,000	6,397	27,587,000	29,350	126,491,000
1988	12,795	52,929,000	7,711	39,725,000	5,445	25,607,000	25,951	118,261,000
1989	9,708	39,640,000	8,385	42,433,000	4,324	20,553,000	22,417	102,626,000
1990	11,379	49,531,000	9,549	48,591,000	4,501	21,526,000	25,429	119,648,000
1991	11,763	51,701,000	8,294	44,203,000	4,405	21,106,000	24,462	117,010,000

See notes and sources at end of table

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total Wells	Footage	Service Strat & Core	Grand Total
Total Wells										
1947	17,999		3,305		9,538		30,842	114,061,000	2,280	33,122
1948	22,585		2,897		12,026		37,508	137,392,000	2,270	39,778
1949	22,042		2,887		12,727		37,656	138,003,000	1,382	39,038
1950	24,430		2,843		14,757		42,030	159,288,000	1,249	43,279
1951	23,453		3,030		16,653		43,136	172,331,000	1,380	44,516
1952	23,466		3,255		17,618		44,339	187,190,000	1,482	45,821
1953	25,762		3,806		18,449		48,017	198,639,000	1,262	49,279
1954	29,773		3,974		19,168		52,915	218,986,000	1,012	53,927
1955	31,567		3,608		20,742		55,917	226,270,000	760	56,677
1956	30,737		4,543		21,797		57,077	233,902,000	1,049	58,126
1957	28,012		4,620		20,983		53,615	221,900,539	1,409	55,024
1958	24,578		4,803		19,043		48,424	198,224,092	1,615	50,039
1959	25,800		5,029		19,265		50,094	209,231,416	1,670	51,764
1960	21,186		5,258		17,574		44,018	190,702,672	2,733	46,751
1961	21,101		5,664		17,106		43,871	192,116,114	3,091	46,962
1962	21,249		5,848		16,682		43,779	198,558,641	2,400	46,179
1963	20,288		4,751		16,347		41,386	184,357,000	2,267	43,653
1964	20,620		4,855		17,488		42,963	189,921,870	2,273	45,236
1965	18,761		4,724		16,025		39,510	181,427,015	1,922	41,432
1966	16,447	65,442,690	4,167	24,443,394	15,770	72,559,125	36,384	162,445,209	2,152	38,536
1967	15,329	58,633,418	3,659	21,580,180	13,246	61,142,865	32,234	141,356,463	1,584	33,818
1968	14,331	59,516,855	3,456	20,716,273	12,812	64,737,319	30,599	144,970,447	2,315	32,914
1969	14,368	61,582,002	4,083	24,162,012	13,736	71,363,845	32,187	157,107,859	1,866	34,053
1970 (c)	13,043	56,830,743	4,031	23,616,865	11,099	58,111,919	28,173	138,559,527	1,369	29,542
1971	11,903	49,057,720	3,983	23,419,852	10,382	54,778,380	26,268	127,255,952	1,414	27,682
1972	11,437	49,483,964	5,484	30,256,715	11,013	59,055,883	27,934	138,796,562	1,486	29,420
1973	10,251	44,759,192	6,975	38,211,608	10,466	56,453,938	27,692	139,424,738	970	28,662
1974	13,664	52,070,312	7,168	38,481,537	12,205	63,224,550	33,037	153,776,399	1,378	34,415
1975	16,979	66,925,867	8,169	44,480,714	13,736	69,633,412	38,884	181,039,993	1,920	40,804
1976	17,697	68,827,696	9,438	49,197,689	13,805	69,264,201	40,940	187,289,586	1,674	42,614
1977	18,700	75,191,080	12,119	63,499,875	15,036	77,004,923	45,855	215,695,878	1,453	47,308
1978	19,065	76,621,339	14,405	75,589,964	16,591	86,174,945	50,061	238,386,248	1,610	51,671
1979	20,689	82,142,574	15,166	79,874,886	16,035	81,667,970	51,890	243,685,430	1,472	53,362
1980	32,120	123,263,713	17,132	90,352,071	20,234	97,829,053	69,486	311,444,837	2,076	71,562
1981	42,520	168,705,956	19,742	105,779,081	26,972	132,035,416	89,234	406,520,453	2,366	91,600
1982 (d)	39,252	148,232,977	18,810	105,188,321	25,827	121,961,621	83,889	375,382,919	2,212	86,101
1983	37,396	136,270,936	14,505	76,665,745	23,837	103,680,783	75,738	316,617,464	1,984	77,722
1984	44,472	167,646,000	14,962	81,649,000	25,549	119,501,000	84,983	368,796,000	2,190	87,173
1985	36,458	142,321,000	12,917	70,894,000	21,431	103,563,000	70,806	316,778,000	1,680	72,486
1986	18,598	74,604,000	8,055	42,858,000	12,362	60,179,000	39,015	177,641,000	769	39,784
1987	16,441	65,893,000	8,114	42,998,000	11,698	54,957,000	36,253	163,848,000	877	37,130
1988	13,608	57,853,000	8,403	44,431,000	10,290	52,657,000	32,301	154,941,000	953	33,254
1989	10,308	43,220,000	9,061	46,808,000	8,299	42,365,000	27,668	132,393,000	672	28,340
1990	12,016	53,769,000	10,187	52,982,000	8,280	43,154,000	30,483	149,905,000	786	31,269

See notes and sources at end of table

Section III
Table 2b

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total Wells	Footage	Service Strat & Core	Grand Total
Total Wells										
1991	12,314	55,123,000	8,785	47,504,000	7,679	39,806,000	28,778	142,433,000	790	29,568

(a) The number of development wells for 1947-1965 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(b) Footage not available prior to 1966.

(c) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970 were completed regardless of the time frame in which they were reported to API.

(d) Data beginning with 1982 are for estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15d (state data), which represent reported completions.

SOURCE: 1947-1965: American Association of Petroleum Geologists and Oil and Gas Journal.
1966-1969: API, Quarterly Review of Drilling Statistics
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: API, Quarterly Completion Reports.

United States Wells Drilled by Depth Interval

Year	Depth Interval (Feet)				Total Wells Drilled
	Under 5,000	5,000-9,999	10,000-14,999	15,000-over	
1959	34,867	11,719	2,757	220	49,563
1960	30,575	10,485	2,835	238	44,133
1961	30,289	10,658	2,789	252	43,988
1962	29,496	11,103	3,062	283	43,944
1963	28,524	10,342	2,723	264	41,853
1964	29,913	10,649	2,604	320	43,486
1965	25,697	11,081	2,491	327	39,596
1966	22,178	9,703	2,251	389	34,521
1967	20,359	8,668	2,130	381	31,538
1968	17,999	8,958	2,264	355	29,576
1969	17,067	9,690	2,378	346	29,481
1970	16,941	8,644	2,142	446	28,173
1971	15,909	7,947	2,005	407	26,268
1972	16,736	8,441	2,226	531	27,934
1973	16,272	8,848	2,105	467	27,692
1974	20,822	9,617	2,178	420	33,037
1975	24,632	11,299	2,504	449	38,884
1976	26,257	11,592	2,707	384	40,940
1977	28,923	13,350	3,121	461	45,855
1978	31,717	14,103	3,610	631	50,061
1979	33,253	14,121	3,824	692	51,890
1980	46,320	18,083	4,270	813	69,486
1981	58,780	23,884	5,578	992	89,234
1982 (a)	56,424	20,574	5,602	1289	83,889
1983	52,658	18,051	4,261	768	75,738
1984	56,838	22,280	5,154	711	84,983
1985	46,337	19,067	4,729	673	70,806
1986	24,989	10,769	2,846	411	39,015
1987	23,077	10,373	2,459	344	36,253
1988	19,388	9,864	2,635	414	32,301
1989	16,657	8,495	2,209	307	27,668
1990	17,876	9,517	2,729	361	30,483
1991	16,839	8,666	2,878	395	28,778

(a) Data beginning with 1982 have been revised to reflect estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15 (state data), which represent reported completions.

SOURCE: 1959-1969: API, Joint Association Survey.
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: API, Quarterly Completion Reports.

Section III
Table 4

United States Petroleum Geophysical Exploration
(Crew Months)

Year	Seismic			Gravity-Magnetic-Other			All Methods		
	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total(b)
1951	(a)	(a)	6,537	(a)	(a)	802	(a)	(a)	7,339
1952	(a)	(a)	7,958	(a)	(a)	965	(a)	(a)	8,923
1953	(a)	(a)	7,666	(a)	(a)	1,006	(a)	(a)	8,672
1954	(a)	(a)	6,863	(a)	(a)	1,106	(a)	(a)	7,969
1955	2,791	4,299	7,090	419	655	1,150 (c)	3,210	4,954	8,240 (c)
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174
1964	1,360	2,742	4,102	76	228	309 (d)	1,436	2,970	4,411 (d)
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471
1966	1,496	2,176	3,672	57	88	163 (e)	1,553	0	3,835 (e)
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496
1968	1,138	2,130	3,268	15	104	122 (f)	1,153	2,234	3,390 (f)
1969	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472
1970	781	1,559	2,340	12	169	181	793	1,728	2,521
1971	656	1,999	2,655	10	97	107	666	2,096	2,762
1972	622	2,394	3,016	6	118	124	628	2,512	3,140
1973	607	2,392	2,999	18	56	74	625	2,448	3,073
1974	540	3,122	3,662	(a)	(a)	230	(a)	(a)	3,892
1975	543	2,860	3,416 (g)	(a)	(a)	271	(a)	(a)	3,687
1976	484	2,646	3,140 (g)	(a)	(a)	245	(a)	(a)	3,385
1977	499	2,564	3,063 (g)	(a)	(a)	120	(a)	(a)	3,183
1978	478	3,670	4,148 (g)	(a)	(a)	196	(a)	(a)	4,344
1979	829	3,571	4,400 (g)	(a)	(a)	199	(a)	(a)	4,599
1980	1,292	3,669	4,962	(a)	(a)	311	(a)	(a)	5,273
1981	1,038	4,839	5,877	(a)	(a)	382	(a)	(a)	6,259
1982	653	5,023	5,676	(a)	(a)	492	(a)	(a)	6,168
1983	588	4,356	4,944	(a)	(a)	334	(a)	(a)	5,278
1984	714	3,984	4,698	(a)	(a)	217	(a)	(a)	4,915
1985	470	3,024	3,494	(a)	(a)	279	(a)	(a)	3,773
1986	401	1,615	2,016	(a)	(a)	84	(a)	(a)	2,100
1987	283	1,278	1,561	(a)	(a)	258	(a)	(a)	1,819
1988	201	1,560	1,761	(a)	(a)	242	(a)	(a)	2,003
1989	112	1,314	1,426	(a)	(a)	126	(a)	(a)	1,552
1990	121	919	1,040	(a)	(a)	70	(a)	(a)	1,110

See notes and sources at end of table

United States Petroleum Geophysical Exploration
(Crew Months)

(a) Company-contractor data are not available.
(b) Percentages do not equal 100 percent due to unallocated crew months included in total.
(c) Includes 76 magnetometer crew months not allocated to either company or contractor.
(d) Includes 5 other crew months not allocated to either company or contractor.
(e) Includes 18 magnetometer crew months not allocated to either company or contractor.
(f) Includes 3 magnetometer crew months not allocated to either company or contractor.
(g) Total includes government and university activity unallocated to company-contractor totals.

SOURCE: Society of Exploration Geophysicists, Annual Reports.

Section III
Table 5

International Petroleum Geophysical Exploration (Crew Months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total World(e)
1954	7,969	1,652	1,210	10,831	(a)	(a)	(a)	(a)	12,424
1955	8,240	1,599	1,148	10,987	(a)	(a)	(a)	(a)	13,430
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	13,627
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	13,655
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	12,590
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	11,481
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	10,526
1961	5,024	664	995	6,683	1,314	1,472	213	521	10,203
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	9,199
1963	4,174	745	1,153	6,072	1,094	978	233	968	9,345
1964	4,411	673	1,133	6,217	1,035	766	283	909	9,210
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	9,689
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	9,040
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	9,055
1968	3,390	970	1,012	5,372	711	679	296	708	7,766
1969	3,472	960	898	5,330	676	864	460	935	8,265
1970	2,521	806	1,052	4,379	725	802	286	1,009	7,201
1971	2,762	334	1,105	4,201	738	915	254	1,578	7,686
1972	3,140	503	1,146	4,789	692	938	239	957	7,615
1973	3,073	585	1,236	4,894	627	798	294	950	7,563
1974	3,892	487	1,572	5,951	702	835	389	1,008	8,897 (b)
1975	3,687	597 (c)	790 (c)	5,074	679 (c)	676 (c)	306 (c)	440 (c)	7,185 (b)
1976	3,385	421 (c)	559 (c)	4,365	592 (c)	674 (c)	351 (c)	338 (c)	6,353 (b)
1977	3,183	766	480 (d)	4,429	646	806	309	254	6,497 (b)
1978	4,148	782	980	5,910	535	613	330	280	7,668 (b)
1979	4,400	761	485	5,646	647	674	345	372	7,746 (b)
1980	4,962	695	645	6,302	569	688	346	520	8,565 (b)
1981	5,877	584	1,261	7,722	733	973	452	436	10,706 (b)
1982	5,676	527	808	7,011	798	755	480	752	9,821 (b)
1983	4,944	658	703	6,305	744	660	359	700	8,789 (b)
1984	4,698	616	612	5,926	770	656	351	703	8,442 (b)
1985	3,494	899	751	5,144	756	581	347	560	7,388 (b)
1986	2,016	453	676	3,145	703	558	295	636	5,337 (b)
1987	1,561	382	586	2,519	435	346	295	522	4,142 (b)
1988	1,761	448	695	2,904	564	404	355	534	4,768 (b)
1989	1,426	436	587	2,449	599	634	312	495	4,490 (b)
1990	998	228	493	1,719	555	449	335	769	3,899 (b)

(b) Includes crew months allocated to international waters and other areas not specifically identified.

(c) Data from 1978 to 1990 and selected items from 1975 and 1976 are seismic activity only.

(d) Only partial data for Mexico included.

(e) Total is incomplete because figures for all countries are not available.

SOURCE: Society of Exploration Geophysicists, Annual Reports

Section III
Table 6

Historical Record: Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(b) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	3	7	11	52	129	48	250	73	3,325	2.20
1948	2	2	9	59	241	33	346	72	4,087	1.76
1949	9	4	9	65	172	78	337	87	4,238	2.05
1950	3	10	15	69	283	56	436	97	5,149	1.88
1951	1	1	13	71	345	61	492	86	6,044	1.42
1952	2	2	11	70	361	90	536	85	6,440	1.32
1953	1	6	17	88	283	134	529	112	6,634	1.69
1954	2	3	12	82	308	179	586	99	7,033	1.41
1955	2	5	13	95	329	178	622	115	7,743	1.49
1956	0	2	2	92	333	124	553	96	8,436	1.14
1957	1	1	7	63	339	186	597	72	7,556	0.95
1958	3	2	16	82	229	157	489	103	6,618	1.56
1959	0	4	3	52	255	110	424	59	7,031	0.84
1960	1	3	5	35	283	143	470	44	7,320	0.60
1961	0	1	4	47	246	68	366	52	6,909	0.75
1962	0	1	3	44	264	78	390	48	6,794	0.71
1963	2	1	7	41	341	100	492	51	6,570	0.78
1964	0	3	9	48	248	109	417	60	6,623	0.91
1965	2	3	5	35	268	63	376	45	6,175	0.73
1966	3	1	3	40	336	6	389	47	6,158	0.76
1967	1	4	2	39	278	24	348	46	5,271	0.87
1968	3	5	1	38	210	63	320	47	5,205	0.90
1969	2	3	2	41	245	28	321	48	5,956	0.81
1970	6	0	5	36	199	17	263	47	4,468	1.05
1971	0	0	3	29	183	13	228	32	4,401	0.73
1972	0	1	0	42	232	12	287	43	5,079	0.85
1973	0	2	4	26	251	7	290	32	4,981	0.64
1974	0	1	0	40	293	7	341	41	5,645	0.73
1975	0	2	3	37	368	8	418	42	6,096	0.69
1976	1	2	5	39	391	20	458	47	5,825	0.81
1977	0	3	2	27	406	14	452	32	6,091	0.53
1978	0	1	0	20	378	11	410	21	6,469	0.32
1979	0	0	3	20	432	19	474	23	6,398	0.36
1980	0	0	1	33	576	34	644	34	7,020	0.48
1981	0	0	1	37	602	48	688	38	8,034	0.47

See notes and sources at end of table

Section III
Table 6a

Historicai Record: Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(b) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	0	33	595	34	662	33	7,783	0.42
TOTAL	50	86	206	1,767	11,232	2,360	15,701	2,109	221,605	0.95

(a) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42 No. 9 (Sept. 1958), p. 2043.

A Fields......................Over 50 million barrels
B Fields........................25-50 million barrels
C Fields........................10-25 million barrels
D Fields..........................1-10 million barrels
E Fields.................Less than 1 million barrels
F Fields.................Abandoned as non-profitable

(b) Includes oil wells, gas wells and dry holes.

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7

Historical Record:
Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	5	5	4	30	35	19	98	44	3,325	1.32
1948	3	3	7	33	35	19	100	46	4,087	1.13
1949	8	7	8	34	43	12	112	57	4,238	1.34
1950	4	4	8	28	44	19	107	44	5,149	0.85
1951	10	4	10	41	57	16	138	65	6,044	1.08
1952	10	7	7	44	65	15	148	68	6,440	1.06
1953	3	3	6	40	89	18	159	52	6,634	0.78
1954	4	1	12	51	104	39	211	68	7,033	0.97
1955	2	3	11	33	107	43	199	49	7,743	0.63
1956	2	4	5	52	92	26	181	63	8,436	0.75
1957	9	5	15	70	105	30	234	99	7,556	1.31
1958	3	6	9	55	143	25	241	73	6,618	1.10
1959	4	1	6	51	135	28	225	62	7,031	0.88
1960	6	2	9	63	135	22	237	80	7,320	1.09
1961	4	3	4	35	156	40	242	46	6,909	0.67
1962	3	4	11	61	161	52	292	79	6,794	1.16
1963	4	1	7	38	124	41	215	50	6,570	0.76
1964	4	1	11	37	136	37	226	53	6,623	0.80
1965	1	3	10	38	142	30	224	52	6,175	0.84
1966	1	3	7	36	142	12	201	47	6,158	0.76
1967	4	5	6	26	111	12	164	41	5,271	0.78
1968	1	5	7	27	83	14	137	40	5,205	0.77
1969	3	2	4	35	116	14	174	44	5,956	0.74
1970	4	3	4	25	107	14	157	36	4,468	0.81
1971	1	2	5	43	135	11	197	51	4,401	1.16
1972	3	4	5	49	212	2	275	61	5,079	1.20
1973	1	5	8	55	320	23	412	69	4,981	1.39
1974	1	3	5	58	349	11	427	67	5,645	1.19
1975	2	1	4	66	347	5	425	73	6,096	1.20
1976	2	1	9	61	426	11	510	73	5,826	1.25
1977	0	1	3	53	393	11	461	57	6,091	0.94
1978	1	2	4	49	402	10	468	56	6,469	0.87
1979	0	2	5	28	621	10	666	35	6,398	0.55
1980	0	1	6	44	622	15	688	51	7,020	0.73
1981	1	2	3	51	550	19	626	57	8,034	0.71

See notes and sources at end of table

Section III
Table 7a

Historical Record: Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	4	29	531	19	583	33	7,783	0.42
TOTAL	114	109	249	1,569	7,375	744	10,160	2,041	221,606	0.92

(a) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields.....................Over 300 billion cubic feet
B Fields.......................150-300 billion cubic feet
C Fields........................60-150 billion cubic feet
D Fields..........................6-60 billion cubic feet
E Fields............................6 billion cubic feet
F Fields......................Abandoned as non-profitable

(b) Includes oil wells, gas wells and dry holes.

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

Historical Record: Number of U.S. New Field Oil and Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	8	12	15	82	164	67	348	117	3,325	3.52
1948	5	5	16	92	276	52	446	118	4,087	2.89
1949	17	11	17	99	215	90	449	144	4,238	3.40
1950	7	14	23	97	327	75	543	141	5,149	2.74
1951	11	5	23	112	402	77	630	151	6,044	2.50
1952	12	9	18	114	426	105	684	153	6,440	2.38
1953	4	9	23	128	372	152	688	164	6,634	2.47
1954	6	4	24	133	412	218	797	167	7,033	2.37
1955	4	8	24	128	436	221	821	164	7,743	2.12
1956	2	6	7	144	425	150	734	159	8,436	1.88
1957	10	6	22	133	444	216	831	171	7,556	2.26
1958	6	8	25	137	372	182	730	176	6,618	2.66
1959	4	5	9	103	390	138	649	121	7,031	1.72
1960	7	5	14	98	418	165	707	124	7,320	1.69
1961	4	4	8	82	402	108	608	98	6,909	1.42
1962	3	5	14	105	425	130	682	127	6,794	1.87
1963	6	2	14	79	465	141	707	101	6,570	1.54
1964	4	4	20	85	384	146	643	113	6,623	1.71
1965	3	6	15	73	410	93	600	97	6,175	1.57
1966	4	4	10	76	478	18	590	94	6,158	1.53
1967	5	9	8	65	389	36	512	87	5,271	1.65
1968	4	10	8	65	293	77	457	87	5,205	1.67
1969	5	5	6	76	361	42	495	92	5,956	1.54
1970	10	3	9	61	306	31	420	83	4,468	1.86
1971	1	2	8	72	318	24	425	83	4,401	1.89
1972	3	5	5	91	444	14	562	104	5,079	2.05
1973	1	7	12	81	571	30	702	101	4,981	2.03
1974	1	4	5	98	642	18	768	108	5,645	1.91
1975	2	3	7	103	715	13	843	115	6,096	1.89
1976	3	3	14	100	817	31	968	120	5,826	2.06
1977	0	4	5	80	799	25	913	89	6,091	1.46
1978	1	3	4	69	780	21	878	77	6,469	1.19
1979	0	2	8	48	1,053	29	1,140	58	6,398	0.91
1980	0	1	7	77	1,198	49	1,332	85	7,020	1.21
1981	1	2	4	88	1,152	67	1,314	95	8,034	1.18

See notes and sources at end of table

Section III
Table 8a

Historical Record: Number of U.S. New Field Oil and Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	4	62	1,126	53	1,245	66	7,783	0.85
TOTAL	164	195	455	3,336	18,607	3,104	25,861	4,150	221,606	1.87

(a) Differs from year-of-discovery total because of consolidations.

A Fields......................Over 50 million barrels or over 300 billion cubic feet
B Fields.........................25-50 million barrels or 150-300 billion cubic feet
C Fields..........................10-25 million barrels or 60-150 billion cubic feet
D Fields.............................1-10 million barrels or 6-60 billion cubic feet
E Fields..............Less than 1 million barrels or less than 6 billion cubic feet
F Fields..Abandoned as non-profitable

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

United States
Estimated Drilling Costs by Well Classification, Onshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						**Gas Wells**					
1959	25,136	94,331.7	1,232,591.0	3,753	49,037	13.07	4,974	26,688.7	460,307.0	5,366	92,543	17.25
1960	20,933	81,168.8	914,306.8	3,878	43,678	11.26	5,175	28,035.4	487,477.5	5,417	94,199	17.39
1961	20,868	79,736.6	971,144.0	3,821	46,537	12.18	5,588	29,454.2	489,799.2	5,271	87,652	16.63
1962	20,060	83,168.5	1,041,452.5	4,146	51,917	12.52	5,743	30,171.3	511,755.7	5,254	89,109	16.96
1963	20,306	77,410.4	940,225.3	3,812	46,303	12.15	4,689	24,626.5	392,325.1	5,252	83,669	15.93
1964	20,535	76,376.6	898,606.9	3,719	43,760	11.77	4,749	25,991.9	447,248.1	5,473	94,177	17.21
1965	18,370	74,627.6	873,769.0	4,062	47,565	11.71	4,654	25,113.4	418,669.6	5,396	89,959	16.67
1966	15,312	60,104.3	745,319.5	3,925	48,676	12.40	3,914	23,217.3	446,177.6	5,932	113,995	19.22
1967	14,196	53,676.0	692,118.9	3,781	48,755	12.89	3,390	19,821.8	401,857.7	5,847	118,542	20.27
1968	13,010	51,828.6	699,182.3	3,984	53,742	13.49	3,145	18,536.1	387,216.3	5,894	123,121	20.89
1969	12,330	52,726.3	790,280.2	4,276	64,094	14.99	3,705	21,237.3	439,917.4	5,732	118,736	20.71
1970	12,014	51,734.0	806,429.0	4,306	67,124	15.59	3,651	21,044.0	478,705.0	5,764	131,116	22.75
1971	11,096	45,672.2	731,152.7	4,116	65,893	16.01	3,494	20,086.7	471,309.2	5,749	134,891	23.46
1972	10,421	45,126.0	792,435.2	4,330	76,042	17.56	4,856	26,424.0	626,559.7	5,442	129,028	23.71
1973	9,407	41,980.9	825,029.7	4,463	87,704	19.65	6,243	34,368.7	843,960.4	5,505	135,185	24.56
1974	12,820	49,662.3	1,270,731.1	3,874	99,121	25.59	6,540	35,552.2	1,114,933.6	5,436	170,479	31.36
1975	15,993	63,641.3	2,003,955.3	3,979	125,302	31.49	7,383	40,613.6	1,667,555.1	5,501	225,864	41.06
1976	16,603	65,636.2	2,227,303.1	3,953	134,151	33.93	8,631	45,714.7	2,011,603.6	5,297	233,067	44.00
1977	17,789	72,090.0	2,654,029.9	4,053	149,195	36.82	11,086	58,791.0	2,924,519.8	5,303	263,803	49.74
1978	17,492	71,596.0	3,157,053.7	4,093	180,486	44.10	12,887	68,610.9	3,996,244.5	5,324	310,099	58.25
1979	18,894	77,021.0	3,983,757.0	4,076	210,848	51.72	13,626	72,733.1	5,010,426.4	5,338	367,711	68.89
1980	28,236	114,228.1	6,924,130.2	4,045	245,223	60.62	14,781	81,400.8	6,720,984.8	5,507	454,704	82.57
1981	38,310	158,514.8	11,948,475.5	4,138	311,889	75.38	17,018	95,089.6	10,125,963.9	5,588	595,015	106.49
1982	35,379	140,035.3	10,895,210.4	3,958	307,957	77.80	16,610	96,211.9	12,572,614.1	5,792	756,930	130.68
1983	33,026	126,511.5	8,004,608.8	3,831	242,373	63.27	12,626	69,362.9	6,642,729.5	5,494	526,115	95.77
1984	38,490	149,635.8	8,891,781.7	3,888	231,015	59.42	14,611	78,856.6	5,986,152.1	5,397	409,702	75.91
1985	33,431	133,489.2	7,875,373.3	3,993	235,571	59.00	13,547	72,431.8	5,747,252.8	5,347	424,245	79.35
1986	17,865	72,708.4	4,143,102.8	4,070	231,912	56.98	7,144	39,023.8	2,902,637.2	5,462	406,304	74.38
1987	15,102	62,430.3	3,073,405.2	4,134	203,510	49.23	7,113	38,125.7	2,338,144.9	5,360	328,714	61.33
1988	12,251	53,921.9	2,947,465.4	4,401	240,590	54.66	7,628	40,358.7	2,907,354.0	5,291	381,142	72.04
1989	9,707	41,218.5	2,302,655.0	4,246	237,216	55.86	8,607	44,281.7	3,346,522.3	5,145	388,814	75.57
1990	11,336	52,078.2	3,292,231.4	4,594	290,423	63.22	9,265	47,121.7	3,670,117.6	5,086	396,127	77.89

See notes and sources at end of table

United States
Estimated Drilling Costs by Well Classification, Onshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes						Onshore Wells Drilled					
1953(a)							49,197	198,056.0	2,447,219.3	4,026	49,743	12.36
1955(a)							55,517	221,197.2	2,439,924.0	3,984	43,949	11.03
1956(a)							56,646	227,580.3	2,669,624.0	4,018	47,128	11.73
1959	18,977	79,735.0	775,839.0	4,202	40,883	9.73	49,087	200,755.5	2,468,737.0	4,090	50,293	12.30
1960	17,427	71,568.4	716,918.5	4,107	41,138	10.02	43,595	180,772.6	2,216,900.0	4,147	50,852	12.26
1961	16,926	71,394.0	706,003.7	4,218	41,711	9.89	43,382	180,584.7	2,166,926.9	4,163	49,950	12.00
1962	16,381	72,462.6	751,889.5	4,424	45,900	10.38	43,184	185,802.4	2,305,097.8	4,303	53,379	12.41
1963	16,072	71,272.9	679,103.1	4,435	42,254	9.53	41,067	173,309.8	2,011,653.4	4,220	48,985	11.61
1964	17,207	76,197.6	723,760.5	4,428	42,062	9.50	42,491	178,566.2	2,069,615.5	4,202	48,707	11.59
1965	15,535	71,075.5	681,175.3	4,575	43,848	9.58	38,559	167,816.5	1,973,613.9	4,352	51,184	11.76
1966	14,168	62,730.4	638,085.6	4,428	45,037	10.17	33,394	146,051.9	1,829,582.8	4,374	54,788	12.53
1967	12,587	57,590.3	591,049.8	4,575	46,957	10.26	30,173	131,088.1	1,685,026.5	4,345	55,846	12.85
1968	12,099	60,145.4	665,359.2	4,971	54,993	11.06	28,254	130,510.1	1,741,757.7	4,619	61,646	13.35
1969	12,255	63,091.7	708,336.3	5,148	57,800	11.23	28,290	137,055.3	1,944,533.9	4,845	68,736	14.19
1970	10,454	53,874.0	695,037.0	5,153	66,485	12.90	26,119	126,652.0	1,980,171.0	4,849	75,813	15.63
1971	9,566	49,877.6	646,412.5	5,214	67,574	12.96	24,156	115,636.6	1,848,874.4	4,787	76,539	15.99
1972	10,173	53,984.4	762,721.5	5,307	74,975	14.13	25,450	125,534.4	2,181,716.4	4,933	85,726	17.38
1973	9,713	51,957.0	827,228.3	5,349	85,167	15.92	25,356	128,306.7	2,496,218.3	5,060	98,447	19.46
1974	11,291	58,327.5	1,301,354.0	5,166	115,256	22.31	30,651	143,542.0	3,687,018.7	4,683	120,290	25.69
1975	12,556	63,604.0	1,725,506.8	5,066	137,425	27.13	35,932	167,859.0	5,397,017.2	4,672	150,201	32.15
1976	12,679	63,250.0	1,747,814.4	4,989	137,851	27.63	37,913	174,600.9	5,986,721.1	4,605	157,907	34.29
1977	13,734	70,293.6	2,321,990.2	5,118	169,069	33.03	42,609	201,174.6	7,900,540.0	4,721	185,420	39.27
1978	15,079	78,655.3	3,330,509.1	5,216	220,871	42.34	45,458	218,862.2	10,483,807.4	4,815	230,626	47.90
1979	14,743	75,365.5	3,877,721.7	5,112	263,021	51.45	47,263	225,119.6	12,871,899.2	4,763	272,346	57.18
1980	17,722	87,898.7	5,308,941.9	4,960	299,568	60.40	60,739	283,527.7	18,954,056.8	4,668	312,057	66.85
1981	24,012	120,773.3	9,040,265.1	5,030	376,489	74.85	79,340	374,377.6	31,114,704.4	4,719	392,169	83.11
1982	23,199	111,833.9	9,806,473.8	4,821	422,711	87.69	75,188	348,081.1	33,274,298.3	4,629	442,548	95.59
1983	20,614	92,519.6	5,496,480.3	4,488	266,638	59.41	66,266	288,393.9	20,143,818.7	4,352	303,984	69.85
1984	22,688	107,837.2	5,304,338.9	4,753	233,795	49.19	75,789	336,329.6	20,182,272.7	4,438	266,296	60.01
1985	19,596	95,753.4	4,994,684.7	4,886	254,883	52.16	66,574	301,674.4	18,617,310.9	4,531	279,648	61.71
1986	11,266	55,149.6	2,910,348.2	4,895	258,330	52.77	36,275	166,881.9	9,956,088.3	4,600	274,461	59.66
1987	10,117	49,455.4	1,773,914.1	4,888	175,340	35.87	32,332	150,011.3	7,185,464.1	4,640	222,240	47.90
1988	8,996	46,600.7	2,000,075.6	5,180	222,329	42.92	28,875	140,881.3	7,854,895.0	4,879	272,031	55.76
1989	7,633	38,252.9	1,635,035.6	5,012	214,206	42.74	25,947	123,753.0	7,284,213.0	4,769	280,734	58.86
1990	7,208	37,621.2	1,784,334.0	5,219	247,549	47.43	27,809	136,821.0	8,746,683.0	4,920	314,527	63.93

(a) Data pertaining to well classification not available.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual

Section III
Table 10

United States
Estimated Drilling Costs by Well Classification, Offshore

Year	Oil Wells: Total Wells	Oil Wells: Total Footage (Thous)	Oil Wells: Total Costs (Thous)	Oil Wells: Avg. Depth Per Well (ft.)	Oil Wells: Avg. Cost Per Well ($)	Oil Wells: Avg. Cost Per Foot ($)	Gas Wells: Total Wells	Gas Wells: Footage (Thous)	Gas Wells: Total Costs (Thous)	Gas Wells: Avg. Depth Per Well (ft.)	Gas Wells: Avg. Cost Per Well ($)	Gas Wells: Avg. Cost Per Foot ($)
1959	277	2,599.6	88,835.0	9,385	320,704	34.17	75	896.7	48,588.0	11,956	647,840	54.19
1960	301	2,865.0	98,197.1	9,518	326,236	34.27	87	1,042.9	52,700.8	11,987	605,756	50.53
1961	336	3,187.5	115,617.3	9,487	344,099	36.27	86	990.2	47,654.8	11,514	554,126	48.13
1962	342	3,326.0	119,019.6	9,725	348,011	35.78	115	1,260.5	57,016.1	10,961	495,792	45.23
1963	372	3,689.4	130,913.0	9,918	351,917	35.48	90	1,051.2	49,100.6	11,680	545,562	46.71
1964	477	4,612.2	164,388.0	9,669	344,629	35.64	125	1,502.0	63,316.0	12,016	506,528	42.15
1965	487	4,919.9	193,026.3	10,102	396,358	39.23	118	1,379.7	67,430.4	11,692	571,444	48.87
1966	544	5,449.4	240,434.0	10,017	441,974	44.12	146	1,756.8	97,073.9	12,033	664,890	55.26
1967	739	6,258.3	303,250.0	8,469	410,352	48.46	168	1,939.8	99,803.2	11,546	594,067	51.45
1968	757	6,627.4	390,146.0	8,755	515,384	58.87	179	1,995.7	106,519.8	11,149	595,083	53.37
1969	585	5,208.2	320,848.3	8,903	548,459	61.60	222	2,457.8	166,088.0	11,071	748,144	67.58
1970	533	4,683.0	281,628.0	8,786	528,383	60.14	193	2,049.0	138,878.0	10,617	719,575	67.78
1971	309	2,913.0	163,352.3	9,427	528,648	56.08	185	2,035.1	141,544.6	11,001	765,106	69.55
1972	332	3,273.5	213,035.8	9,860	641,674	65.08	230	2,460.6	175,825.9	10,698	764,460	71.46
1973	296	2,686.2	181,945.6	9,075	614,681	67.73	193	1,968.2	153,971.2	10,198	797,778	78.23
1974	253	2,102.9	169,594.7	8,312	670,335	80.65	155	1,578.8	151,606.7	10,186	978,108	96.03
1975	283	2,426.5	252,551.7	8,574	892,409	104.08	271	2,762.3	337,855.3	10,193	1,246,699	122.31
1976	275	2,621.0	322,349.5	9,531	1,172,180	122.99	273	2,651.1	395,815.0	9,711	1,449,872	149.30
1977	288	2,570.4	418,724.6	8,925	1,453,905	162.90	393	3,722.3	674,579.0	9,472	1,716,486	181.23
1978	298	2,814.7	542,971.4	9,445	1,822,052	192.91	419	4,208.6	982,577.3	10,044	2,345,053	233.47
1979	349	3,240.0	694,803.4	9,284	1,990,841	214.45	453	4,606.7	1,227,705.6	10,169	2,710,167	266.50
1980	317	2,838.0	844,306.7	8,953	2,663,428	297.50	444	4,418.8	1,445,737.8	9,952	3,256,166	327.18
1981	415	3,467.3	1,074,328.8	8,355	2,588,744	309.85	515	5,168.0	2,122,169.8	10,035	4,120,718	410.64
1982	486	4,269.2	1,563,370.0	8,784	3,216,811	366.20	442	4,591.6	2,165,054.2	10,388	4,898,313	471.53
1983	459	4,312.4	1,499,152.3	9,395	3,266,127	347.64	293	3,124.5	1,213,032.8	10,664	4,140,044	388.23
1984	486	4,381.8	1,322,458.1	9,016	2,721,107	301.81	372	3,787.6	1,352,636.1	10,182	3,636,119	357.12
1985	369	3,400.2	1,265,696.9	9,215	3,430,073	372.24	307	3,274.7	1,299,888.9	10,667	4,234,166	396.95
1986	333	3,138.9	1,040,990.1	9,426	3,126,096	331.64	207	2,300.1	941,245.4	11,112	4,547,079	409.22
1987	224	2,171.7	696,024.5	9,695	3,107,252	320.50	142	1,548.4	421,324.9	10,904	2,967,077	272.10
1988	183	1,859.4	526,695.9	10,161	2,878,120	283.26	192	2,163.7	692,150.8	11,269	3,604,952	319.89
1989	158	1,677.0	461,970.0	10,614	3,050,443	287.40	223	2,256.7	695,766.7	10,120	3,120,030	308.31
1990	136	1,289.6	399,457.1	9,482	2,937,185	309.75	209	2,089.0	794,796.4	9,995	3,802.9	380.47

See notes and sources at end of table

United States
Estimated Drilling Costs by Well Classification, Offshore

Year	Dry Holes						Offshore Wells Drilled					
	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953(a)							82 (b)	783.0	24,499.0	9,549	298,768	31.29
1955(a)							414 (c)	3,959.8	160,219.0	9,565	387,002	40.46
1956(a)							479 (d)	4,593.4	198,786.0	9,590	415,002	43.28
1959	124	1,260.6	44,936.0	10,166	362,387	35.65	476	4,756.9	182,359.0	9,993	383,107	38.34
1960	150	1,700.4	56,620.4	11,336	377,469	33.30	538	5,608.4	207,518.3	10,425	385,722	37.00
1961	184	1,906.6	67,963.7	10,362	369,368	35.65	606	6,084.4	231,235.8	10,040	381,577	38.00
1962	303	3,168.2	95,541.9	10,456	315,320	30.16	760	7,754.8	271,577.6	10,204	357,339	35.02
1963	324	3,429.7	111,196.9	10,585	343,200	32.42	786	8,170.2	291,210.5	10,395	370,497	35.64
1964	393	4,065.2	130,047.6	10,344	330,910	31.99	995	10,179.3	357,751.7	10,230	359,549	35.15
1965	432	4,588.9	167,366.0	10,622	387,421	36.47	1,037	10,888.6	427,822.6	10,500	412,558	39.29
1966	437	4,664.1	193,649.6	10,673	443,134	41.52	1,127	11,870.3	531,157.5	10,533	471,302	44.75
1967	458	4,719.5	211,098.7	10,305	460,914	44.73	1,365	12,917.7	614,151.9	9,464	449,928	47.54
1968	386	3,995.5	170,936.8	10,351	442,841	42.78	1,322	12,618.6	667,602.7	9,545	504,994	52.91
1969	384	3,983.9	179,201.1	10,375	466,670	44.98	1,191	11,649.9	666,137.4	9,782	559,309	57.18
1970	332	3,506.0	178,005.0	10,560	536,160	50.77	1,058	10,238.0	598,511.0	9,677	565,700	58.46
1971	390	4,059.3	217,720.1	10,408	558,257	53.63	884	9,007.4	522,617.1	10,189	591,196	58.02
1972	431	4,267.0	243,587.6	9,900	565,168	57.09	993	10,001.1	632,449.4	10,072	636,908	63.24
1973	399	3,699.7	242,397.1	9,272	607,512	65.52	888	8,354.1	578,313.9	9,408	651,254	69.23
1974	422	3,720.5	358,768.7	8,816	850,163	96.43	830	7,402.3	679,970.1	8,918	819,241	91.86
1975	474	4,594	583,789.7	9,693	1,231,624	127.07	1,028	9,783.2	1,174,196.7	9,517	1,142,215	120.02
1976	480	4,545	756,794.7	9,469	1,576,656	166.50	1,028	9,817.2	1,474,959.2	9,550	1,434,785	150.24
1977	536	5,227	962,609.5	9,752	1,795,913	184.15	1,217	11,519.9	2,055,913.1	9,466	1,689,329	178.47
1978	480	4,733	1,051,734.0	9,861	2,191,113	222.19	1,197	11,756.7	2,577,282.7	9,822	2,153,118	219.22
1979	458	4,546	1,284,522.2	9,925	2,804,634	282.58	1,260	12,392.5	3,207,031.2	9,835	2,545,263	258.79
1980	511	5,246	1,556,254.3	10,267	3,045,507	296.63	1,272	12,503.3	3,846,298.9	9,830	3,023,820	307.62
1981	546	5,788	2,354,253.5	10,600	4,311,820	406.76	1,476	14,422.5	5,550,752.1	9,771	3,760,672	384.87
1982	536	5,676	2,425,396.1	10,590	4,524,993	427.28	1,464	14,537.1	6,153,820.3	9,930	4,203,429	423.32
1983	518	5,395	2,248,538.9	10,415	4,340,809	416.78	1,270	12,831.9	4,960,724.0	10,104	3,906,082	386.59
1984	563	6,090	2,348,852.4	10,817	4,172,029	385.70	1,421	14,259.2	5,023,946.6	10,035	3,535,501	352.33
1985	571	6,141	2,513,705.9	10,755	4,402,287	409.33	1,247	12,815.9	5,079,291.7	10,277	4,073,209	396.33
1986	358	3,969	1,614,079.2	11,086	4,508,601	406.70	898	9,407.7	3,596,314.6	10,476	4,004,805	382.27
1987	343	3,625	935,935.9	10,569	2,728,676	258.18	709	7,345.3	2,053,285.3	10,360	2,896,030	279.54
1988	491	5,311	1,475,780.4	10,818	3,005,663	277.85	866	9,334.4	2,694,627.1	10,779	3,111,579	288.68
1989	365	3,788	1,207,389.4	10,377	3,307,916	318.77	746	7,721.4	2,385,126.1	10,350	3,197,220	308.90
1990	359	3,585	996,537.5	9,987	2,775,870	277.97	704	6,963.8	2,190,791.0	9,892	3,111,919	314.60

(a) Data pertaining to well classification not available.
(b) Louisiana only.
(c) Includes Louisiana and Texas.
(d) Includes Louisiana, Texas and California.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual.

Section III
Table 11

United States
Estimated Drilling Costs, all Wells by Classification

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						**Gas Wells**					
1959	25,413	96,931.3	1,321,426.0	3,814	51,998	13.63	5,049	27,585.5	508,895.0	5,464	100,791	18.45
1960	21,294	84,033.9	1,110,701.1	3,946	52,160	13.22	5,262	29,078.3	540,179.3	5,526	102,657	18.58
1961	21,204	82,924.1	1,086,761.4	3,911	51,253	13.11	5,674	30,444.4	537,433.9	5,366	94,719	17.65
1962	21,402	86,494.5	1,160,472.1	4,041	54,223	13.42	5,858	31,431.8	568,771.8	5,366	97,093	18.10
1963	20,678	81,099.8	1,071,138.2	3,922	51,801	13.21	4,779	25,677.7	441,425.7	5,373	92,368	17.19
1964	21,012	80,988.9	1,062,994.9	3,854	50,590	13.13	4,874	27,493.8	510,564.1	5,641	104,753	18.57
1965	18,857	76,547.5	1,066,795.3	4,059	56,573	13.94	4,772	26,493.2	486,100.0	5,552	101,865	18.35
1966	15,856	65,553.6	985,753.6	4,134	62,169	15.04	4,060	24,974.1	543,251.6	6,151	133,806	21.75
1967	14,935	59,934.3	995,368.9	4,013	66,647	16.61	3,558	21,761.6	501,660.9	6,116	140,995	23.05
1968	13,767	58,456.1	1,089,328.4	4,246	79,126	18.63	3,324	20,531.8	493,736.1	6,177	148,537	24.05
1969	12,915	57,934.4	1,117,128.5	4,486	86,499	19.28	3,927	23,695.2	606,005.4	6,034	154,318	25.58
1970	12,547	56,417.0	1,088,057.0	4,496	86,718	19.29	3,844	23,093.0	617,583.0	6,008	160,662	26.74
1971	11,405	48,585.2	894,505.1	4,260	78,431	18.41	3,679	22,121.8	612,853.8	6,013	166,582	27.70
1972	10,753	48,399.5	1,005,471.1	4,501	93,506	20.77	5,086	28,884.6	802,385.5	5,679	157,764	27.78
1973	9,705	44,667.1	1,006,975.3	4,602	103,758	22.54	6,427	36,336.9	997,931.6	5,654	155,272	27.46
1974	13,073	51,765.2	1,440,325.8	3,960	110,176	27.82	6,695	37,131.1	1,266,540.3	5,546	189,177	34.11
1975	16,276	66,067.8	2,256,507.0	4,059	138,640	34.15	7,654	43,375.9	2,005,410.4	5,667	262,008	46.23
1976	16,878	68,257.2	2,549,652.6	4,044	151,064	37.35	8,904	48,365.8	2,407,418.6	5,432	270,375	49.78
1977	18,077	74,660.3	3,072,754.5	4,130	169,981	41.16	11,479	62,513.2	3,599,098.8	5,446	313,538	57.57
1978	17,790	74,410.8	3,700,025.1	4,182	207,983	49.73	13,306	72,819.5	4,978,821.9	5,473	374,179	68.37
1979	19,243	80,261.0	4,678,560.4	4,170	243,130	58.30	14,079	77,339.9	6,238,126.0	5,493	443,080	80.66
1980	28,553	117,066.2	7,768,436.9	4,099	272,070	66.37	15,225	85,819.6	8,166,722.6	5,637	536,402	95.16
1981	38,725	161,982.1	13,022,804.3	4,183	336,289	80.40	17,533	100,257.5	12,248,133.7	5,718	698,576	122.17
1982	35,865	144,304.5	12,458,580.5	4,024	347,374	86.33	17,052	100,803.5	14,737,668.3	5,912	864,278	146.20
1983	33,485	130,823.9	9,503,761.1	3,907	283,821	72.64	12,919	72,487.3	7,855,762.3	5,611	608,078	108.37
1984	38,976	154,017.6	10,214,239.8	3,952	262,065	66.32	14,983	82,644.2	7,338,788.2	5,516	489,808	88.80
1985	33,800	136,889.5	9,141,070.2	4,050	270,446	66.78	13,854	75,706.5	7,047,141.7	5,465	508,672	93.09
1986	18,198	75,847.3	5,184,092.9	4,168	284,872	68.35	7,351	41,324.0	3,843,882.6	5,622	522,906	93.02
1987	15,326	64,602.0	3,769,429.7	4,215	245,950	58.35	7,255	39,674.1	2,759,469.8	5,469	380,354	69.55
1988	12,434	55,781.3	3,474,161.3	4,486	279,408	62.28	7,820	42,522.4	3,599,504.8	5,438	460,295	84.65
1989	9,865	42,895.4	2,784,625.0	4,348	282,273	64.92	8,830	46,538.3	4,042,289.1	5,270	457,790	86.86
1990	11,472	53,367.7	3,691,688.4	4,652	321,800	69.17	9474	49,210.6	4,464,914.0	5,194	471,281	90.73

See notes and sources at end of table

United States
Estimated Drilling Costs, all Wells by Classification

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes						**Total Wells Drilled**					
1953(a)							49,279	198,839.0	2,471,718.3	4,035	50,158	12.43
1955(a)							55,931	225,157.0	2,600,143.0	4,026	46,488	11.55
1956(a)							57,125	232,173.7	2,868,410.0	4,064	50,213	12.35
1959	19,101	80,995.6	820,775.0	4,240	42,970	10.13	49,563	205,512.4	2,651,096.0	4,146	53,489	12.90
1960	17,577	73,268.8	773,538.9	4,168	44,009	10.56	44,133	186,380.9	2,424,418.3	4,223	54,934	13.01
1961	17,110	73,300.6	773,967.3	4,284	45,235	10.56	43,988	186,669.1	2,398,162.6	4,244	54,519	12.85
1962	16,684	75,630.9	847,431.5	4,533	50,793	11.20	43,944	193,557.2	2,576,675.4	4,405	58,635	13.31
1963	16,396	74,702.6	790,300.1	4,556	48,201	10.58	41,853	181,480.1	2,302,864.0	4,336	55,023	12.69
1964	17,600	80,262.7	853,808.2	4,560	48,512	10.64	43,486	188,745.4	2,427,367.2	4,340	55,820	12.86
1965	15,967	75,664.4	848,541.2	4,739	53,143	11.21	39,596	178,705.1	2,401,436.5	4,513	60,648	13.44
1966	14,605	67,394.5	831,735.2	4,614	56,949	12.34	34,521	157,922.3	2,360,740.3	4,575	68,386	14.95
1967	13,045	62,309.9	802,148.5	4,777	61,491	12.87	31,538	144,005.8	2,299,178.4	4,566	72,902	15.97
1968	12,485	64,140.9	826,295.9	5,137	66,183	12.88	29,576	143,128.8	2,409,360.4	4,839	81,463	16.83
1969	12,639	67,075.6	887,537.4	5,307	70,222	13.23	29,481	148,705.2	2,610,671.3	5,044	88,554	17.56
1970	10,786	57,380.0	873,042.0	5,320	80,942	15.21	27,177	136,890.0	2,578,682.0	5,037	94,885	18.84
1971	9,956	53,936.9	864,132.7	5,418	86,795	16.02	25,040	124,644.0	2,371,491.5	4,978	94,708	19.03
1972	10,604	58,251.4	1,006,309.2	5,493	94,899	17.28	26,443	135,535.5	2,814,165.8	5,126	106,424	20.76
1973	10,112	55,656.7	1,069,625.4	5,504	105,778	19.22	26,244	136,660.8	3,074,532.3	5,207	117,152	22.50
1974	11,713	62,048.0	1,660,122.7	5,297	141,733	26.76	31,481	150,944.3	4,366,988.8	4,795	138,718	28.93
1975	13,030	68,198.4	2,309,296.5	5,234	177,229	33.86	36,960	177,642.1	6,571,213.9	4,806	177,793	36.99
1976	13,159	67,795.2	2,504,609.1	5,152	190,334	36.94	38,941	184,418.1	7,461,680.3	4,736	191,615	40.46
1977	14,270	75,520.8	3,284,599.7	5,292	230,175	43.49	43,826	212,694.4	9,956,453.0	4,853	227,181	46.81
1978	15,559	83,388.7	4,382,243.2	5,359	281,653	52.56	46,655	230,618.9	13,061,090.0	4,943	279,950	56.63
1979	15,201	79,911.3	5,162,244.0	5,256	339,598	64.61	48,523	237,512.1	16,078,930.4	4,895	331,367	67.70
1980	18,233	93,145.1	6,865,196.2	5,108	376,525	73.71	62,011	296,031.0	22,800,355.7	4,774	367,682	77.02
1981	24,558	126,560.5	11,394,518.6	5,154	463,984	90.03	80,816	388,800.1	36,665,456.5	4,811	453,691	94.30
1982	23,735	117,510.1	12,231,869.9	4,951	515,352	104.09	76,652	362,618.2	39,428,118.6	4,731	514,378	108.73
1983	21,132	97,914.6	7,745,019.2	4,633	366,507	79.11	67,536	301,225.8	25,104,542.6	4,460	371,721	83.34
1984	23,251	113,927.0	7,653,191.4	4,900	329,155	67.18	77,210	350,588.7	25,206,219.3	4,541	326,463	71.90
1985	20,167	101,894.4	7,508,390.7	5,053	372,311	73.68	67,821	314,490.4	23,696,602.5	4,637	349,399	75.35
1986	11,624	59,118.3	4,524,427.4	5,086	389,232	76.53	37,173	176,289.6	13,552,402.8	4,742	364,577	76.88
1987	10,460	53,080.5	2,709,850.0	5,075	259,068	51.05	33,041	157,356.6	9,238,749.5	4,762	279,615	58.71
1988	9,487	51,912.1	3,475,856.0	5,472	366,381	66.96	29,741	150,217.8	10,549,522.1	5,051	354,713	70.23
1989	7,998	42,040.6	2,842,425.0	5,256	355,392	67.61	26,693	131,474.4	9,669,339.1	4,925	362,243	73.55
1990	7,567	41,206.4	2,780,871.5	5,446	367,500	67.49	28,513	143,784.8	10,937,473.9	5,043	383,596	76.07

(a) Data pertaining to well classification not available.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual

International Well Completions

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	29,467	27,300	28,755	27,602	32,893	39,097	41,455	46,479	48,513	51,263	62,462	80,537	88,101	75,738	84,983
Canada	3,108	3,175	3,548	4,621	4,227	4,242	6,221	6,197	7,170	7,489	8,813	6,927	6,464	7,095	8,765
Mexico	502	516	431	422	408	353	336	307	406	333	434	412	336	65	268
Total North America	33,077	30,991	32,734	32,645	37,528	44	48,012	52,938	56,089	59,085	72	87,876	94,901	82,898	94,016
Argentina	579	595	623	597	606	552	646	647	865	773	953	904	822	130	126
Brazil	177	175	179	128	176	228	288	245	256	385	463	668	1,045	1,145	963
Ecuador	37	81	59	58	37	15	19	16	16	40	23	27	27	10	25
Peru	135	121	117	89	152	161	150	160	157	451	540	426	149	23	150
Trinidad-Tobago	135	220	196	212	200	189	192	217	215	188	218	243	200	11	151
Venezuela	589	464	371	427	416	284	337	446	637	1,030	1,275	1,491	1,500	19	406
Other	177	189	158	127	140	128	156	194	183	289	326	380	357	49	241
Total Latin America(c)	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156	3,798	4,139	4,100	1,387	2,062
Total Western Hemisphere(c)	34,906	32,836	34,437	34,283	39,255	45,249	49,800	54,908	58,418	62,241	75,507	92,015	99,001	84,285	96,078
Total North Sea	88	100	107	113	176	207	210	166	134	227	273	283	283	402	141
Other European	274	318	352	287	313	369	345	410	525	448	758	810	777	665	648
Total Europe(c)	362	418	459	400	489	576	555	576	659	675	1,031	1,093	1,060	1,067	789
Algeria	115	109	80	83	79	107	54	130	60	267	249	159	0	32	NA
Gabon	26	36	36	44	59	49	44	31	35	38	40	61	56	62	43
Libya	250	87	77	74	79	66	64	109	177	184	192	157	110	--	99
Nigeria	168	207	258	239	249	192	143	118	104	116	132	202	144	124	89
Other	150	214	194	157	162	191	130	208	208	236	257	369	461	475	450
Total Africa(c)	709	653	645	597	628	605	435	596	584	841	870	948	771	693	NA
United Arab Emirates	7	28	55	57	84	68	113	98	90	96	138	161	193	34	143
Iran	44	104	61	81	100	140	182	185	180	0	-	-	-	--	--
Iraq	6	17	0	16	2	0	2	NA	NA	66	67	-	-	--	--
Kuwait(b)	13	8	2	0	0	0	8	0	0	12	36	5	8	--	11
Saudi Arabia(b)	43	56	178	323	300	210	163	180	145	144	223	229	25	--	--
Neutral Zone(b)	23	12	9	13	19	14	15	4	0	3	4	5	6	--	--
Qatar	7	10	8	9	2	7	4	2	2	46	53	51	52	--	8
Oman	27	0	56	49	40	55	42	51	61	102	89	110	159	38	46
Other	72	58	56	61	83	102	75	124	107	143	207	210	128	39	62
Total Middle East(c)	242	293	425	609	630	596	604	644	585	621	817	771	571	111	270
Indonesia	84	422	312	501	630	588	513	409	536	473	635	727	323	969	756
Other(d)	162	157	223	197	180	157	229	295	440	2,492	3,443	3,539	592	384	1,219
Total Australasia(c)	246	579	535	698	810	745	742	704	976	2,965	4,078	4,266	915	1,353	1,975
Total Eastern Hemisphere(c)	1,559	1,943	2,064	2,304	2,557	2,522	2,336	2,520	2,804	5,102	6,796	7,078	3,317	3,224	NA
TOTAL WORLD(c)	36,465	34,779	36,501	36,587	41,812	47,771	52,136	57,428	61,222	67,343	82,303	99,093	102,318	87,509	NA

See notes and sources at end of table

International Well Completions

Area/Country	1985	1986	1987	1988	1989
United States	70,806	39,015	35,232	34,015	28,799
Canada	12,564	5,991	7,078	7,849	5,513
Mexico	297	247	103	132	82
Total North America	83,667	45,253	42,413	41,996	34,394
Argentina	1,024	820	416	781	801
Brazil	1,074	1,086	950	793	591
Ecuador	22	33	30	42	29
Peru	160	148	152	118	86
Trinidad-Tobago	197	162	142	142	85
Venezuela	361	254	177	235	181
Other	299	394	336	455	370
Total Latin America(c)	3,137	2,897	2,203	2,566	2,143
Total Western Hemisphere(c)	86,706	48,150	43,616	44,562	36,537
Total North Sea	462	435	350	NA	NA
Other European	817	744	570	NA	NA
Total Europe(c)	1,279	1,179	920	NA	743
Algeria	NA	NA	45	35	78
Gabon	46	21	31	43	52
Libya	NA	41	41	74	87
Nigeria	62	56	72	69	91
Other	401	337	314	306	253
Total Africa(c)	NA	NA	503	527	561
United Arab Emirates	NA	111	NA	8	52
Iran	NA	58	NA	NA	NA
Iraq	NA	40	89	106	NA
Kuwait(b)	NA	59	23	1	10
Saudi Arabia(b)	NA	33	NA	NA	47
Neutral Zone(b)	NA	0	0	0	NA
Qatar	NA	0	NA	NA	11
Oman	NA	210	NA	NA	NA
Other	NA	141	28	4	258
Total Middle East(c)	NA	652	140	119	378
Indonesia	658	647	586	NA	599
Other(d)	6,684	6,234	6,641	6,560	103
Total Australasia(c)	7,340	6,881	7,250	6,560	702
Total Eastern Hemisphere(c)	NA	NA	8,813	7,733	2,648
TOTAL WORLD(c)	NA	NA	52,429	52,295	39,185

See notes and sources at end of table

International Well Completions

(a) Data for all countries is not available.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis.
(c) Totals reflect data for countries not individually listed.
(d) Includes 5555 wells in China in 1985, 5,525 in 1986, 5,721 in 1987, 5,835 in 1988.
No data was reported for China in 1989.
NA Not Available.

SOURCE: United States: American Association of Petroleum Geologists and American Petroleum Institute
Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991

Section III
Table 13

International Exploratory Well Completions(a)

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	7,693	6,922	7,539	7,466	8,619	9,214	9,234	9,961	10,677	10,484	11,916	15,168	16,482	13,845	15,138
Canada	1,537	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925	3,857	3,074	2,346	2,041	2,863
Mexico	130	129	143	104	98	87	79	79	83	NA	85	63	65	65	44
Total North America	9,360	8,585	9,315	9,789	10,452	10,950	11,794	12,841	13,904	NA	15,858	18,305	18,893	15,951	18,045
Argentina	113	157	110	139	117	78	83	143	81	NA	110	127	107	130	136
Brazil	100	87	80	78	86	87	105	155	89	NA	166	245	328	262	243
Ecuador	20	15	20	8	5	3	3	5	3	NA	0	3	5	10	3
Peru	28	21	25	31	43	43	36	37	28	NA	13	17	12	23	29
Trinidad-Tobago	23	35	23	15	13	14	23	17	8	NA	51	16	23	11	4
Venezuela	90	44	64	63	76	35	45	48	60	NA	69	351	250	19	18
Other	70	60	77	50	65	61	67	56	60	NA	NA	211	150	49	66
Total Latin America	444	419	399	384	405	321	362	406	329	NA	409	970	879	504	499
Total Western Hemisphere	9,804	9,004	9,714	10,173	10,857	11,271	12,156	13,247	14,233	NA	16,267	19,275	19,772	16,455	18,544
Total North Sea	66	53	51	70	92	124	109	21	38	168	NA	135	201	220	79
Other European	93	146	159	147	151	172	163	231	259	157	NA	372	398	308	317
Total Europe	159	199	210	217	243	296	272	252	297	325	NA	507	599	528	396
Algeria	37	25	10	13	9	17	11	11	3	3	2	1	1	2	3
Gabon	13	11	17	15	13	23	19	19	20	22	15	23	16	11	18
Libya	51	41	34	25	32	36	22	33	41	30	35	43	34	--	51
Nigeria	31	55	61	45	51	33	21	24	35	22	31	26	30	24	12
Other	131	125	101	80	86	91	89	117	102	133	124	191	216	167	124
Total Africa	263	257	223	178	191	200	162	204	201	204	207	284	297	204	208
United Arab Emirates	7	10	22	8	3	0	15	14	24	0	10	0	26	34	17
Iran	11	6	2	18	27	26	26	25	10	NA	0	NA	0	--	--
Iraq	1	0	0	3	2	0	2	NA	NA	NA	0	NA	0	--	--
Kuwait(b)	1	2	0	0	0	0	2	0	0	NA	2	NA	8	--	11
Saudi Arabia(b)	2	2	6	3	4	9	24	4	25	NA	40	NA	25	--	--
Neutral Zone(b)	0	0	0	0	0	0	0	0	0	NA	0	NA	2	--	--
Qatar	2	1	6	1	0	0	0	0	0	NA	3	NA	4	--	3
Oman	2	0	16	0	0	0	0	10	24	NA	15	NA	31	38	29
Other	46	27	29	32	34	65	51	45	39	NA	18	NA	71	39	50
Total Middle East(c)	72	48	81	65	70	100	120	99	122	NA	88	NA	167	111	110
Indonesia	84	135	137	169	176	186	130	115	146	NA	182	NA	167	NA	216
Other	162	126	175	173	162	127	119	132	249	NA	221	NA	297	NA	468
Total Australasia(c)	246	261	312	342	338	313	249	247	395	377	403	125	464	NA	684
Total Eastern Hemisphere(c)	740	765	826	802	842	909	803	802	1,015	NA	698	916	1,527	843	1,398
TOTAL WORLD (c)	10,544	9,769	10,540	10,975	11,699	12,180	12,959	14,049	15,248	14,315	16,695	20,191	21,299	17,170	19,942

See notes and sources at end of table

International Exploratory Well Completions(a)

Area/Country	1985	1986	1987	1988	1989
United States	12,208	7,156	6,715	6,702	5,315
Canada	3,404	2,034	2,369	2,889	2,525
Mexico	78	68	27	33	24
Total North America	15,690	9,258	9,111	9,624	7,864
Argentina	161	92	45	102	120
Brazil	229	163	176	160	115
Ecuador	2	4	9	14	11
Peru	13	11	13	8	7
Trinidad-Tobago	14	8	8	6	8
Venezuela	6	25	21	17	23
Other	111	84	129	139	126
Total Latin America	536	387	401	446	410
Total Western Hemisphere	16,448	9,645	9,512	10,070	8,274
Total North Sea	254	224	174	NA	NA
Other European	362	366	570	NA	NA
Total Europe	616	579	744	NA	426
Algeria	25	30	25	14	18
Gabon	13	12	16	20	26
Libya	45	27	25	25	26
Nigeria	17	29	44	42	47
Other	184	143	154	146	123
Total Africa	284	241	264	247	240
United Arab Emirates	NA	13	0	8	3
Iran	NA	7	NA	NA	NA
Iraq	NA	2	10	19	2
Kuwait(b)	NA	0	2	1	2
Saudi Arabia(b)	NA	6	NA	3	3
Neutral Zone(b)	NA	0	0	0	NA
Qatar	NA	0	NA	7	3
Oman	NA	32	36	40	44
Other	NA	64	43	81	103
Total Middle East(c)	NA	124	91	159	160
Indonesia	208	122	75	103	102
Other	256	323	310	226	52
Total Australasia(c)	464	445	385	329	154
Total Eastern Hemisphere(c)	NA	1,380	1,484	635	1,048
TOTAL WORLD(c)	NA	11,025	10,996	10,705	9,322

See notes and sources at end of table

International Exploratory Well Completions(a)

(a) Data for all countries is not available.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis.
(c) Totals reflect data for countries not individually listed.
NA = Not Available.

SOURCE: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991.

United States Annual Average Rotary Rig Activity by State

STATE	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6	5	2	1	2
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9	6	5	6	13
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13	10	9	11	10
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	2	1	1
California	173	134	157	165	169	138	143	119	97	80	93	80	82	97	85	93	89	79
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30	23	21	19	16
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1	0	1	4	2
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0	1	0	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32	25	20	24	30
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6	6	6	5	5
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1	1	0	0	1
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101	96	87	70	56
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6	10	8	12	13
Louisiana	239	231	243	257	280	312	401	442	423	309	332	287	275	261	265	282	270	256
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	2	2	4
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15	14	13	11	9
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46	46	39	35	34
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	0	0	1
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27	22	21	26	24
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16	12	11	10	8
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0	0	1	2	1
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94	84	79	65	60
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2	1	1	1	1
North Carolin	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14	9	14	12	12
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8	12	56	22	14
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174	158	158	163	141
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9	12	11	9	10
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1	1	1	2	0
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570	500	477	425	387
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29	22	17	14	14
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	0	0	1
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13	14	16	24	19
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53	55	48	50	48
TOTAL(a)	2,017	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637	1,500	1,502	1,387	1,273

United States Annual Average Rotary Rig Activity by State

STATE	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	2	3	6	7	8	15	13	12	14	17	13	13	13	11	17	15	16	15
Alaska	21	20	28	14	5	5	5	9	14	14	15	16	13	14	23	22	14	14
Arkansas	8	7	16	13	15	15	15	18	14	15	14	14	10	27	34	27	26	26
Arizona	3	1	2	0	1	0	2	1	0	1	1	0	0	1	1	1	0	0
California	83	87	78	52	46	46	51	72	80	89	90	94	96	120	155	129	106	107
Colorado	16	17	23	25	30	35	42	46	42	38	45	41	40	61	82	61	52	54
Florida	2	1	1	4	11	18	9	7	9	5	6	6	5	4	8	5	4	4
Georgia	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Idaho	0	0	0	1	0	0	1	0	0	1	1	3	2	3	3	1	1	1
Illinois	30	22	17	14	13	14	6	7	19	22	16	28	13	25	45	76	60	41
Indiana	3	2	1	1	1	1	0	1	2	0	3	4	0	0	1	7	6	7
Iowa	0	0	0	0	1	2	1	0	2	0	1	0	0	0	0	0	0	0
Kansas	41	35	38	30	29	24	28	44	57	51	67	76	66	120	196	158	124	128
Kentucky	9	5	2	1	2	2	1	2	1	1	2	3	0	0	5	10	8	8
Louisiana	235	233	230	204	194	215	205	203	228	231	292	338	347	427	456	344	283	310
Maryland	0	1	1	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0
Michigan	10	10	10	11	12	17	20	24	28	24	24	24	25	31	36	31	29	34
Mississippi	33	36	40	43	39	37	29	29	25	32	42	44	40	58	71	42	33	32
Missouri	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Montana	22	34	31	17	17	20	19	24	27	28	27	30	33	49	81	37	24	36
Nebraska	5	5	10	6	5	6	5	7	9	8	9	10	9	14	15	9	9	9
Nevada	1	2	0	0	0	0	0	1	0	2	3	2	4	5	5	3	1	5
New Mexico	56	68	64	40	47	56	62	79	71	54	69	76	88	118	135	104	65	78
New York	1	1	0	0	1	0	1	7	8	9	7	7	9	7	12	15	10	9
North Carolin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	11	13	12	9	9	7	10	12	17	19	24	39	56	83	119	70	43	51
Ohio	18	22	22	24	17	22	36	30	21	26	33	45	46	75	98	57	39	51
Oklahoma	101	106	120	98	90	90	115	146	177	186	233	258	247	397	698	623	285	319
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0
Pennsylvania	7	5	7	9	9	8	11	14	10	10	15	25	29	29	39	33	22	36
Rhode Island	0	0	0	0	0	0	0	0	0	0	1	4	4	2	0	0	0	0
South Dakota	0	1	1	2	1	1	1	1	1	2	3	2	1	2	2	1	1	2
Tennessee	1	0	1	2	1	0	0	0	0	0	0	0	0	1	0	2	1	0
Texas	340	329	322	302	291	338	376	508	638	653	779	855	770	988	1,316	994	796	850
Utah	15	12	12	12	17	34	38	42	26	19	30	32	29	42	69	40	37	45
Virginia	0	0	0	1	1	0	1	2	3	0	1	1	1	1	4	3	2	2
Washington	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1
West Virginia	15	16	18	16	17	17	20	16	10	12	17	27	30	38	45	49	34	38
Wyoming	44	75	81	71	45	61	70	107	107	86	118	137	147	156	191	143	96	115
TOTAL(a)	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656	2,001	2,255	2,176	2,910	3,969	3,117	2,229	2,428

See notes and sources at end of table

United States Annual Average Rotary Rig Activity by State

STATE	1985	1986	1987	1988	1989	1990	1991
Alabama	22	11	11	12	11	26	11
Alaska	20	13	8	12	11	12	11
Arkansas	24	10	9	9	9	11	9
Arizona	0	0	1	0	0	0	0
California	80	49	61	60	49	49	47
Colorado	50	25	25	29	27	30	29
Florida	7	3	4	2	2	2	1
Georgia	0	0	0	0	0	0	0
Hawaii	0	0	0	0	0	2	1
Idaho	1	1	0	1	0	0	0
Illinois	28	6	3	4	5	4	4
Indiana	4	1	1	0	0	0	0
Iowa	0	0	1	0	0	0	0
Kansas	91	47	48	40	43	47	37
Kentucky	6	3	2	5	5	8	7
Louisiana	282	143	136	164	140	151	115
Maryland	0	0	0	0	0	0	0
Michigan	34	24	22	20	17	13	8
Mississippi	31	15	13	18	16	13	10
Missouri	0	0	0	0	0	0	0
Montana	23	10	9	8	6	5	5
Nebraska	6	3	5	3	1	2	3
Nevada	5	3	2	2	2	1	2
New Mexico	71	29	35	37	36	50	41
New York	5	2	2	1	1	1	2
North Carolin	0	0	0	0	0	0	0
North Dakota	38	14	14	15	15	20	13
Ohio	29	18	20	14	13	12	13
Oklahoma	251	142	137	126	122	125	106
Oregon	0	0	0	1	0	0	0
Pennsylvania	30	18	17	19	17	15	18
Rhode Island	0	0	0	0	0	0	0
South Dakota	2	1	0	1	1	0	1
Tennessee	0	0	0	1	1	0	0
Texas	677	313	296	281	266	349	317
Utah	29	11	8	6	5	5	11
Virginia	4	6	2	2	2	2	2
Washington	0	0	0	1	1	0	0
West Virginia	26	15	13	13	16	16	14
Wyoming	93	36	40	37	34	37	31
TOTAL(a)	1,969	970	936	936	869	1,010	860

(a) Totals may not add due to independent rounding.

SOURCE: Baker-Hughes Tool Company

United States Total Wells Reported as Completed by State

	1967			1968			1969			1970(g)			1971		
STATE/AREA	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	28	10	38	18	14	32	34	14	48	30	16	46	55	21	79
Alaska	33	41	74	18	86	107	12	51	67	30	45	77	5	28	33
Offshore(b)	0	0	0	0	0	0	2	44	50	1	16	19	0	1	1
Arizona	14	10	24	6	4	10	24	14	39	9	3	13	10	4	15
Arkansas	87	320	409	111	211	322	131	288	422	87	230	328	93	235	351
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	352	2,182	2,668	353	2,366	2,888	288	1,712	2,167	243	1,791	2,316	221	1,591	2,095
Offshore(b)	12	73	101	28	304	367	17	210	262	15	117	144	15	56	76
Colorado	277	262	539	270	224	495	538	276	820	461	249	710	605	385	990
Florida	11	0	11	9	4	13	8	5	13	13	16	29	18	22	42
Georgia	0	0	0	0	0	0	2	0	2	3	0	3	1	0	1
Idaho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	328	861	1,339	253	789	1,226	241	639	988	198	482	753	152	406	622
Indiana	254	220	510	158	179	367	178	189	407	149	143	307	110	101	228
Iowa	1	0	25	0	0	22	0	0	7	3	0	5	1	0	1
Kansas	1,270	1,937	3,345	1,186	1,849	3,107	1,058	1,919	3,105	882	1,642	2,574	735	1,603	2,398
Kentucky	458	1,086	1,647	453	828	1,379	256	696	1,030	234	594	892	213	557	829
Louisiana	935	2,209	3,185	1,026	2,415	3,478	865	2,272	3,174	669	2,376	3,084	830	2,198	3,078
Offshore(b)	296	559	867	352	696	1,068	147	678	835	150	788	953	274	564	861
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Michigan	173	191	365	174	196	380	164	168	348	152	126	281	162	141	306
Mississippi	347	368	722	382	297	688	373	342	716	232	310	563	213	287	524
Missouri	4	0	19	4	12	38	7	22	57	4	10	15	7	7	15
Montana	302	252	580	465	400	882	499	296	834	307	148	473	323	134	485
Nebraska	95	84	179	196	89	288	285	98	388	167	83	251	130	83	215
Nevada	7	2	9	0	0	0	14	2	16	2	0	9	6	0	6
New Mexico	166	925	1,118	154	743	925	190	984	1,219	159	580	774	158	696	867
New York	35	176	238	9	97	120	6	128	166	11	88	110	10	90	129
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12
North Dakota	60	93	156	121	62	186	178	74	252	87	57	145	98	60	158
Ohio	75	1,186	1,267	79	1,084	1,165	53	1,185	1,255	35	1,310	1,346	41	1,210	1,256
Oklahoma	421	2,431	3,074	422	2,318	2,996	546	2,567	3,395	452	2,135	2,783	430	1,815	2,444
Oregon	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
Offshore(b)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	59	564	683	62	733	897	43	853	1,018	43	664	759	21	719	786
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	4	0	4	4	0	4	56	0	56	64	1	65	24	8	32
Tennessee	47	0	47	25	1	26	23	3	27	50	48	98	113	57	170
Texas	2,508	6,628	9,576	2,207	5,407	8,743	2,718	5,938	9,233	2,022	5,681	8,130	1,848	5,427	7,737
Offshore(b)	61	41	102	40	13	53	103	11	114	49	8	57	31	7	38
Utah	67	75	144	41	58	99	103	71	175	46	39	87	61	36	98
Virginia	0	0	0	0	0	0	8	2	10	0	0	0	0	7	7
Washington	3	0	3	2	0	2	0	0	0	0	0	12	0	0	0
Offshore(b)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	36	738	777	87	646	735	83	819	920	88	998	1,111	66	696	768
Wyoming	420	505	1,042	584	608	1,293	716	859	1,678	504	872	1,393	357	513	903
N. Gulf of Mexico(c)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,878	23,356	33,818	8,879	21,720	32,914 (e)	9,701 (f)	22,486	34,053 (f)	7,436	20,737	29,542	7,131	19,137	27,682

See notes and sources at end of table

United States Total Wells Reported as Completed by State

STATE/AREA	1972			1973			1974			1975			1976		
	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	87	32	119	72	39	111	48	36	86	76	53	130	54	62	116
Alaska	12	13	30	13	19	33	12	27	39	24	41	69	6	54	77
Offshore(b)	0	4	7	3	6	10	0	11	11	1	13	14	0	13	18
Arizona	13	10	23	2	8	10	1	1	2	1	0	2	2	0	2
Arkansas	96	240	344	79	206	292	91	231	325	77	245	330	80	348	438
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	193	1,202	1,674	202	1,073	1,393	253	1,915	2,397	213	2,028	2,694	257	2,161	2,808
Offshore(b)	4	55	80	2	50	65	5	67	79	5	56	66	7	21	28
Colorado	473	501	975	462	478	945	374	537	919	405	762	1,172	389	762	1,152
Florida	39	67	109	34	23	60	28	11	40	34	17	52	9	16	26
Georgia	2	0	2	4	0	4	5	0	5	3	0	3	3	0	3
Idaho	1	0	1	5	0	5	2	0	2	1	0	1	2	0	2
Illinois	157	453	655	213	386	656	225	577	855	253	764	1,129	226	1,058	1,484
Indiana	130	138	284	139	100	259	168	208	389	156	217	400	196	291	509
Iowa	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
Kansas	773	1,645	2,498	754	1,416	2,244	855	1,913	2,960	909	2,444	3,728	893	2,646	3,705
Kentucky	217	541	817	165	458	652	197	508	759	341	631	1,013	425	742	1,189
Louisiana	731	2,481	3,244	678	2,015	2,719	652	2,120	2,833	722	2,322	3,105	607	2,719	3,373
Offshore(b)	200	797	1,008	202	548	760	149	452	620	147	525	679	94	473	572
Maryland	1	0	1	0	0	1	1	0	1	1	0	3	0	2	3
Michigan	182	127	317	191	113	307	264	165	441	282	249	536	294	213	530
Mississippi	237	184	455	209	145	367	288	148	440	260	183	454	265	233	504
Missouri	3	0	4	11	2	13	20	7	96	19	6	95	9	13	44
Montana	430	287	733	448	233	685	420	369	792	355	503	858	362	409	773
Nebraska	185	90	275	102	67	176	167	91	263	206	133	347	193	119	312
Nevada	2	0	2	0	0	0	2	0	2	5	0	5	8	0	8
New Mexico	200	864	1,093	191	849	1,083	215	963	1,193	162	974	1,173	162	859	1,042
New York	14	115	144	21	177	222	53	264	373	35	538	610	40	419	519
North Carolina	2	0	2	7	0	7	3	0	3	1	0	1	0	0	1
North Dakota	60	33	94	71	51	129	76	68	145	105	100	205	122	122	245
Ohio	64	1,484	1,548	160	1,563	1,724	134	1,414	1,552	157	1,400	1,558	133	2,071	2,205
Oklahoma	400	1,888	2,502	353	2,000	2,470	399	2,846	3,386	411	3,404	3,960	452	4,104	4,741
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	83	946	1,100	94	1,151	1,299	124	1,303	1,559	88	1,116	1,270	67	1,212	1,316
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	18	1	19	16	1	17	11	2	17	24	3	27	29	6	36
Tennessee	68	27	95	68	29	99	117	64	181	169	63	232	153	46	199
Texas	2,077	5,839	8,365	2,416	5,906	8,656	3,141	6,881	10,321	3,291	9,588	13,276	3,276	9,335	12,982
Offshore(b)	52	6	58	69	11	80	157	8	166	150	15	166	174	130	304
Utah	77	76	153	77	131	208	55	153	211	64	129	196	41	87	131
Virginia	1	15	16	3	17	20	8	37	45	8	28	36	3	8	11
Washington	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	89	576	669	109	749	858	81	657	741	95	661	772	114	875	1,035
Wyoming	432	508	1,058	402	516	938	463	550	1,026	473	822	1,327	415	630	1,059
N. Gulf of Mexico(c)	0	0	0	0	0	0	14	0	14	33	1	34	27	1	28
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	7,551	20,383	29,420	7,771	19,921	28,662	8,969	24,068	34,415	9,459	29,425	40,804	9,317	31,623	42,614 (h)

See notes and sources at end of table

United States Total Wells Reported as Completed by State

STATE/AREA	1977			1978			1979			1980			1981		
	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	47	88	136	60	101	161	101	118	219	77	119	196	75	142	222
Alaska	21	48	73	12	55	76	14	71	96	16	108	125	20	146	172
Offshore(b)	3	12	19	2	7	11	2	5	8	0	5	6	0	4	5
Arizona	2	2	4	0	8	8	2	1	4	6	0	6	8	5	14
Arkansas	82	390	491	95	347	450	105	393	504	111	496	612	154	723	889
Atlantic Coast(d)	0	0	1	7	0	7	18	0	18	4	0	4	5	0	5
California	275	1,938	2,553	359	1,639	2,485	395	1,592	2,340	443	2,072	3,039	538	2,593	3,838
Offshore(b)	17	39	63	15	65	85	8	85	123	7	77	137	7	148	193
Colorado	392	791	1,212	449	701	1,156	456	607	1,089	553	857	1,414	849	1,122	1,977
Florida	14	15	32	15	11	29	11	20	32	8	11	21	10	15	25
Georgia	0	0	0	1	0	1	0	0	0	1	0	1	2	0	2
Idaho	1	0	1	7	0	7	3	0	3	5	0	5	5	0	5
Illinois	238	851	1,143	277	855	1,202	284	967	1,327	487	1,828	2,482	736	2,550	3,436
Indiana	276	337	621	268	401	685	183	302	494	327	406	751	347	460	828
Iowa	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Kansas	1,043	2 899	4,060	1,181	3,312	4,576	1,022	3,338	4,436	1,237	4,923	6,266	1,848	6,542	8,551
Kentucky	368	688	1,095	353	657	1,077	423	709	1,195	619	1,463	2,171	870	2,030	3,062
Louisiana	640	2,753	3,439	782	3,001	3,817	665	3,358	4,063	808	4,223	5,147	971	4,362	5,503
Offshore(b)	138	634	785	121	594	723	123	598	723	146	493	644	176	503	680
Maryland	0	0	3	0	0	3	0	0	0	1	0	1	1	0	1
Michigan	297	243	545	267	257	539	255	264	538	316	345	676	402	362	787
Mississippi	272	255	539	241	248	496	242	281	534	310	360	680	357	431	788
Missouri	8	4	53	6	26	49	15	56	85	22	143	266	78	189	397
Montana	273	400	679	324	453	778	349	471	822	382	507	902	521	744	1,289
Nebraska	235	186	425	265	183	451	265	184	450	252	260	514	279	327	608
Nevada	12	6	18	14	7	22	11	0	12	20	1	21	28	2	34
New Mexico	180	1,210	1,407	205	1,375	1,625	212	1,396	1,656	273	1,793	2,126	358	2,099	2,527
New York	49	345	485	45	330	427	60	437	513	59	436	507	79	492	578
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	111	131	242	162	178	341	175	265	440	256	360	619	461	417	879
Ohio	81	2,685	2,768	77	3,254	3,333	114	3,532	3,657	66	5,023	5,093	151	5,926	6,082
Oklahoma	490	4,821	5,344	495	5,641	6,164	479	6,477	6,980	554	9,568	10,158	733	12,357	13,125
Oregon	2	0	2	0	0	0	17	4	21	32	9	41	20	0	20
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	116	1,433	1,569	94	2,013	2,182	105	2,068	2,295	255	2,833	3,261	342	3,517	3,962
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	20	23	43	21	29	50	32	17	49	33	41	75	47	43	90
Tennessee	177	110	287	149	115	264	163	185	348	293	257	550	333	295	628
Texas	3,726	10,898	15,114	4,085	11,260	15,863	3,910	11,414	15,810	4,354	15,172	20,038	5,688	20,291	26,442
Offshore(b)	131	180	311	160	147	307	123	87	210	113	132	245	125	114	239
Utah	103	184	305	80	186	268	89	187	284	112	177	291	208	347	555
Virginia	9	16	25	5	26	31	4	21	25	2	25	27	6	26	32
Washington	0	0	0	0	0	0	0	0	6	2	0	3	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	115	1,112	1,267	151	1,352	1,537	124	1,445	1,612	119	1,752	1,924	170	1,948	2,170
Wyoming	440	827	1,281	470	996	1,489	411	963	1,392	435	1,037	1,518	708	1,289	2,043
N. Gulf of Mexico(c)	17	17	34	4	14	18	18	12	30	16	11	27	22	12	34
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	7	0	11	4	0	4	3	0	3	4	0	4	0	0	0
Total	10,140	35,715	47,308	11,030	39,031	51,671	10,735	41,155	53,362	12,870	56,616	71,562	17,430	71,804	91,600

See notes and sources at end of tabl

Section III
Table 15c

United States Total Wells Reported as Completed by State

STATE/AREA	1982 Exploratory	1982 Development	1982 Total(a)	1983 Exploratory	1983 Development	1983 Total(a)	1984 Exploratory	1984 Development	1984 Total(a)	1985 Exploratory	1985 Development	1985 Total(a)	1986 Exploratory	1986 Development	1986 Total(a)
Alabama	79	133	214	84	133	217	121	262	383	143	217	360	77	143	220
Alaska	10	200	227	3	157	163	10	165	186	5	98	104	2	176	184
Offshore(b)	0	8	11	0	6	6	0	2	2	0	6	6	0	8	8
Arizona	7	1	14	11	1	12	2	0	2	2	1	3	6	0	6
Arkansas	128	680	825	154	723	900	133	739	897	122	875	1,018	85	399	484
Atlantic Coast(d)	7	0	7	1	0	1	3	0	3	0	0	0	0	0	0
California	468	2,107	3,097	195	2,143	2,733	204	3,276	3,898	201	3,122	3,599	142	1,993	2,252
Offshore(b)	16	175	231	16	77	103	13	104	132	4	84	92	0	41	41
Colorado	653	1,173	1,832	504	978	1,484	579	1,221	1,806	563	966	1,551	285	742	1,029
Florida	12	9	21	13	7	20	12	12	24	10	11	21	6	8	14
Georgia	1	0	1	0	0	0	3	0	3	1	0	1	2	0	2
Idaho	6	0	6	4	0	4	3	0	3	3	0	3	4	0	4
Illinois	695	2,433	3,253	729	2,181	3,035	699	2,194	2,941	537	1,840	2,381	307	1,021	1,343
Indiana	451	571	1,051	453	534	1,022	404	523	990	403	540	972	152	272	443
Iowa	0	0	0	0	0	0	0	0	0	1	0	1	3	0	3
Kansas	1,838	6,491	8,561	1,718	5,342	7,265	2,346	4,088	6,550	1,503	3,986	5,584	1,110	2,029	3,146
Kentucky	1,119	2,583	3,804	1,375	2,721	4,232	972	2,781	3,844	635	1,976	2,643	196	814	1,016
Louisiana	801	4,244	5,117	592	4,359	5,048	763	6,001	6,891	621	4,754	5,450	427	2,238	2,669
Offshore(b)	157	432	589	114	685	801	197	704	901	165	481	647	146	344	493
Maryland	0	0	0	0	0	0	2	0	2	0	0	0	1	0	1
Michigan	449	435	900	302	457	772	536	568	1,121	454	394	863	259	265	541
Mississippi	268	316	584	252	298	550	282	332	615	260	312	572	109	185	295
Missouri	79	104	305	43	133	243	28	85	260	15	62	84	5	5	10
Montana	275	536	816	181	326	511	251	557	820	222	385	609	143	205	348
Nebraska	197	212	414	187	181	369	180	186	377	160	114	277	85	55	156
Nevada	11	0	13	7	1	8	32	5	37	25	9	34	20	0	20
New Mexico	314	1,733	2,100	192	1,301	1,527	225	1,398	1,668	288	1,434	1,743	157	760	934
New York	44	623	668	41	370	413	30	579	609	18	418	436	11	246	257
North Carolina	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0
North Dakota	371	325	696	211	278	489	279	421	700	219	278	497	126	93	219
Ohio	180	4,618	4,814	114	4,150	4,288	108	4,818	4,958	84	3,652	3,743	31	1,906	1,946
Oklahoma	707	10,660	11,390	567	8,340	8,943	515	8,990	9,579	406	7,133	7,617	219	4,315	4,570
Oregon	8	0	8	0	0	0	1	0	1	3	2	5	8	2	10
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	165	3,168	3,399	92	2,324	2,465	102	3,358	3,533	60	2,718	2,806	24	1,234	1,258
South Carolina	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
South Dakota	33	20	53	34	18	52	16	28	44	16	31	49	17	0	17
Tennessee	413	214	627	328	189	517	164	202	366	117	120	237	57	125	182
Texas	5,077	19,707	25,439	4,524	18,897	24,089	5,111	21,810	27,696	4,174	19,225	24,291	2,520	10,253	13,253
Offshore(b)	141	99	240	109	53	162	111	78	189	118	98	216	50	52	102
Utah	149	313	482	132	283	415	112	380	493	54	302	359	37	159	198
Virginia	26	71	97	14	21	35	3	64	67	3	85	88	7	132	139
Washington	5	0	8	1	0	5	1	0	7	2	2	4	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	156	1,921	2,114	60	1,536	1,619	37	1,846	1,919	35	1,393	1,432	15	872	887
Wyoming	537	1,124	1,719	473	997	1,508	607	1,142	1,804	552	918	1,533	363	452	830
N. Gulf of Mexico(c)	22	26	48	13	42	55	57	26	83	95	29	124	61	49	110
Pacific Coast(d)	4	0	4	22	0	22	12	0	12	4	0	4	4	4	8
Alaska(d)	1	0	1	0	0	0	2	0	2	10	0	10	4	2	6
Total	15,766	66,751	84,729	13,627	59,421	75,032	14,949	68,057	85,196	12,026	57,402	71,108	7,087	31,154	39,010

See notes and sources at end of table

Section III
Table 15d

United States Total Wells Reported as Completed by State

STATE/AREA	1987			1988			1989			1990			1991		
	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	69	203	272	100	233	333	110	397	507	110	943	1,053	56	789	845
Alaska	4	89	96	5	132	144	7	95	119	6	105	119	6	85	96
Offshore(b)	0	3	5	0	10	12	1	6	9	1	8	10	0	2	3
Arizona	4	0	4	1	0	1	1	0	1	0	4	4	0	0	1
Arkansas	90	323	413	58	372	430	58	254	313	56	265	321	40	185	226
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	170	2,167	2,538	125	1,781	2,133	138	1,580	1,826	101	1,942	2,253	89	1,309	1,753
Offshore(b)	6	36	42	4	32	37	5	25	32	0	20	32	0	28	36
Colorado	258	628	890	292	740	1,033	322	602	930	275	849	1,126	156	555	712
Florida	4	5	9	7	3	10	9	2	11	9	1	10	7	0	7
Georgia	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0
Idaho	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0
Illinois	235	981	1,323	307	778	1,230	263	529	831	181	550	773	129	417	577
Indiana	154	180	352	113	147	279	76	117	198	50	93	154	37	73	119
Iowa	1	0	1	1	0	1	5	0	5	2	0	2	0	0	0
Kansas	1,247	1,983	3,236	994	2,007	3,005	887	1,688	2,578	893	1,981	2,874	721	1,271	1,995
Kentucky	190	995	1,201	160	1,028	1,197	159	879	1,041	101	754	857	51	442	493
Louisiana	347	2,057	2,404	346	1,906	2,253	262	1,421	1,689	267	1,587	1,854	160	1,020	1,181
Offshore(b)	125	363	488	176	455	631	109	332	441	111	377	488	67	149	216
Maryland	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0
Michigan	274	252	537	254	383	640	185	663	850	137	850	990	79	486	569
Mississippi	115	201	317	138	207	345	132	160	292	127	151	278	96	98	194
Missouri	6	12	18	10	2	12	7	1	8	8	4	12	1	21	24
Montana	99	188	298	139	208	355	63	173	236	80	251	333	45	190	235
Nebraska	128	65	204	91	43	135	62	41	103	86	39	126	56	56	114
Nevada	13	2	15	15	3	21	16	7	25	22	9	36	14	6	25
New Mexico	155	627	800	111	769	889	96	808	923	81	1,205	1,305	81	965	1,063
New York	8	246	254	8	171	179	4	100	104	3	6	9	0	0	0
North Carolina	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	98	88	186	137	118	256	80	102	182	131	125	257	76	95	171
Ohio	42	1,752	1,794	40	1,339	1,382	22	1,241	1,264	55	1,205	1,260	35	524	562
Oklahoma	244	3,579	3,883	258	3,054	3,368	217	2,592	2,906	260	2,493	2,831	214	1,973	2,228
Oregon	6	4	10	11	4	18	8	6	14	1	2	3	6	1	7
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	30	1,110	1,141	42	997	1,039	34	850	884	36	419	455	3	63	66
South Carolina	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0
South Dakota	9	6	15	9	10	20	9	7	16	9	4	14	7	1	8
Tennessee	34	131	165	10	75	85	9	51	60	4	32	36	2	15	17
Texas	2,224	8,663	11,259	1,976	7,570	9,978	1,685	6,479	8,503	1,521	7,059	8,868	1,210	6,456	7,947
Offshore(b)	59	58	117	91	93	184	68	114	182	98	103	201	46	24	70
Utah	48	71	122	45	86	133	25	57	84	23	71	94	38	135	175
Virginia	2	19	21	4	25	29	2	20	22	0	6	6	0	0	0
Washington	1	0	1	3	0	3	3	0	3	0	0	0	1	0	1
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	20	842	862	11	654	665	7	782	789	1	711	712	5	532	537
Wyoming	328	448	809	322	391	731	197	385	604	266	494	873	150	300	476
N. Gulf of Mexico(c)	44	32	76	89	44	133	69	49	118	48	43	91	29	27	56
Pacific Coast(d)	0	6	6	1	5	6	0	5	5	0	0	0	0	1	1
Alaska(d)	0	1	1	1	0	1	2	0	2	2	0	2	0	0	0
Total	6,705	27,956	35,538	6,241	25,285	32,479	5,231	22,143	28,046	4,952	24,253	29,991	3,600	18,091	22,481

Section III
Table 15e

United States Total Wells Reported as Completed by State

(a) Includes service wells, stratigraphic and core tests.

(b) Included in state total.

(c) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(d) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

(e) Total includes one well completed in Minnesota

(f) Total includes one exploratory well completed in Vermont

(g) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970 the statistics show the year in which the wells were completed, regardless of the time frame in which they were reported to the API.

(h) Total includes one well completed offshore Massachusettes, and one completed in New Jersey.

SOURCE: 1967-1969: American Petroleum Institute and the American Association of Petroleum Geologists.
1970-1981: American Petroleum Institute, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: American Petroleum Institute, Quarterly Completion Reports.

United States Rotary Rig Census

Year	Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	Drilling Depth Capabilities (Thousand Feet) 0-5	6-9	10-12	13-15	16-Over	Total Land Rigs	Drilling Barges	Offshore Rigs
1967 (a)	2,408	2,359	49	835	1,573	623	776	435	199	375	2,114	121	173
1968	2,111	2,067	44	603	1,508	493	680	381	185	372	1,825	114	172
1969	2,060	2,033	27	411	1,649	528	626	352	188	366	1,827	98	135
1970	1,898	1,869	29	567	1,331	434	580	322	219	343	1,662	106	130
1971	1,859	1,832	27	551	1,308	436	535	329	198	361	1,592	124	143
1972	1,768	1,741	27	387	1,381	409	490	301	171	397	1,551	77	140
1973	1,767	1,739	28	294	1,473	355	517	318	164	413	1,570	71	126
1974	1,894	1,881	13	125	1,769	387	529	339	214	425	1,715	66	113
1975	2,028	2,014	14	151	1,877	396	579	380	225	558	1,839	74	115
1976	2,204	2,180	24	225	1,979	468	633	366	239	498	1,964	76	164
1977	2,482	2,451	31	83	2,399	542	628	461	274	577	2,186	77	219
1978	2,851	2,818	33	66	2,785	557	723	565	313	693	2,524	91	236
1979	3,182	3,144	38	308	2,874	546	783	631	350	872	2,802	109	271
1980	3,672	3,626	46	130	3,542	605	885	704	419	1,059	3,255	115	302
1981	4,803	4,762	41	100	4,703	773	1,080	950	595	1,405	4,316	161	326
1982	5,644	5,606	38	2,419	3,225	821	1,285	1,104	717	1,717	5,139	157	348
1983	5,273	5,241	32	2,734	2,539	746	1,233	993	662	1,639	4,832	128	313
1984	4,580	4,553	27	1,490	3,090	571	1,077	933	591	1,408	4,102	131	347
1985	4,409	4,386	23	1,784	2,625	529	1,084	894	570	1,332	3,940	121	348
1986	3,993	3,961	32	2,941	1,052	517	971	789	496	1,220	3,573	90	330
1987	3,331	3,299	32	1,943	1,388	435	841	637	427	991	2,956	91	284
1988	2,752	2,716	36	1,220	1,532	336	751	529	386	771	2,429	64	259
1989	2,542	2,508	34	1,098	1,444	294	700	515	329	704	2,249	63	230
1990	2,320	2,294	26	643	1,677	276	623	488	313	620	2,061	54	205

(a) Data for prior years not available on a comparable basis.

SOURCE: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year and published in the October issue of World Oil Magazine)

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	2
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	8	10
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	7
Arkansas	160	165	168 *	179	190	200	230	240	240	255	260	300	320	370	485	480	490
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652	774	826	879
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466	462	451	501
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45	74	30	25
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350	300	290	285
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003	6,633	6,915	7,050
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829	5,119	5,200	5,210
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479	6,990	7,442	7,859
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	38	38	34	33	33
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154	155	174	175
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400	472	490	450
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	0	9	9	6	6
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999	981	954	905
Nebraska	0	0	0	0	0	0	0	0	0	0	0	0	50	53	49	47	44
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047	6,491	6,967	7,150
New York	1,700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000	1,109	1,130	1,130
North Dakota	0	0	0	0	0	0	0	0	0	0	0	0	28	28	28	29	31
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063	7,077	7,117	7,128
Oklahoma	3,250	3,400	3,500	3,600	3,600	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800	6,218	6,324	6,639
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350	16,500	16,600	16,600
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee(a)	0	18	18	18	20	20	27	28	28	28	30	30	25	30	23	30	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612	19,831	20,834	22,016
Utah	0	0	0	0	0	0	0	0	0	0	0	0	37	35	135	121	135
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	53	92	98	98	98
West Virginia	15,800	16,100	15,500	13,900	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500	16297	17,121	17,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350	460	547	578
Other	30	34	40	43	70	100	109	117	125	130	145	170	0	0	0	0	0
Total	63,670	64,212	64,146	64,900	65,100	65,450	68,223	70,192	71,475	74,261	77,041	80,400	83,225	90,761	96,809	100,267	102,966

See notes and sources at end of table

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	0	0	0	0	1	1	2	0	15	15	6	45	66	69	199	250	314
Alaska	13	11	19	21	18	44	51	40	50	52	52	61	50	50	52	58	71
Arizona	10	8	9	7	4	4	4	5	4	4	1	1	1	1	1	1	1
Arkansas	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172	1,128	1,223	1,253	1,335	1,402	1,114
California	950	1,033	1,068	1,059	994	897	980	962	1,086	1,095	1,142	1,585	1,123	1,050	1,131	1,117	1,125
Colorado	560	701	826	827	810	805	861	928	934	1,050	1,347	1,380	1,500	2,053	2,318	2,574	2,997
Illinois	25	25	3	3	5	5	8	14	31	36	37	41	34	34	51	51	70
Indiana	280	275	275	271	265	263	50	83	87	106	474	478	563	596	641	655	698
Kansas	7,174	7,200	8,606	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800	8,865	9,330	9,375	9,450	10,544	12,820
Kentucky	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307	7,386	7,505	7,649	7,776	7,883	7,984
Louisiana	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248	11,359	11,370	12,484	13,333	14,464	16,190
Maryland	16	20	8	13	15	13	16	14	16	15	15	15	14	12	12	12	9
Michigan	195	226	250	244	199	211	1,235	1,171	1,317	1,145	503	209	214	212	376	376	423
Mississippi	435	370	376	360	347	322	325	400	252	250	239	248	257	365	402	433	447
Missouri	6	11	11	11	11	11	11	2	3	2	3	3	3	7	7	0	0
Montana	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450	1,235	1,490	1,438	1,755	1,881	1,881
Nebraska	41	39	37	37	36	35	35	29	29	29	25	19	17	18	22	20	22
New Mexico	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915	10,352	10,674	11,812	12,609	13,598	14,571
New York	1,155	1,150	1,164	1,159	1,155	818	600	600	650	789	700	900	1,400	1,600	1,900	2,200	2,076
North Dakota	31	31	31	31	19	33	29	29	21	44	34	18	34	34	23	78	80
Ohio	7,160	7,100	3,790	3,865	7,211	7,334	7,789	8,179	8,630	9,406	10,038	10,382	11,509	13,032	14,197	15,827	17,251
Oklahoma	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401	9,769	10,436	11,570	12,861	14,417	16,419
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Pennsylvania	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,600	16,600	17,123	17,300	17,500	17,391	18,900	19,800	19,900
South Dakota	0	0	0	0	0	0	0	0	5	10	20	20	20	20	20	10	13
Tennessee(a)	30	20	20	21	23	26	15	20	45	6	13	5	7	49	75	184	177
Texas	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646	26,184	27,762	31,512	33,157	35,650	37,724
Utah	135	148	156	168	165	171	173	178	200	158	114	271	71	535	171	182	200
Virginia	100	99	104	104	111	111	115	115	130	178	174	186	180	202	227	258	258
West Virginia	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450	21,700	22,100	22,600	23,575	24,725	25,900
Wyoming	610	701	741	749	787	521	800	840	887	850	900	950	990	995	888	1,236	1,264
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	103,094	111,680	112,498	112,321	114,391	114,476	117,483	120,210	121,158	124,178	126,349	132,095	137,443	148,018	157,454	169,891	182,004

See notes and sources at end of table

Section III
Table 17b

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	385	489	461	690	863	1,029	1,135	1,264	1,701	2,362
Alaska	79	97	78	81	84	85	85	91	108	111
Arizona	1	1	1	1	1	1	0	0	3	5
Arkansas	1,600	1,959	1,763	2,371	2,623	2,719	2,847	2,996	2,830	2,952
California	1,110	1,352	1,413	1,469	1,566	1,316	1,294	1,469	1,214	1,162
Colorado	3,543	4,008	4,391	4,549	4,401	4,398	4,530	4,426	5,125	5,741
Illinois	70	57	64	81	123	152	169	293	241	356
Indiana	720	736	737	758	1,272	1,289	1,298	1,295	1,310	1,307
Kansas	15,550	13,800	14,100	4,925	15,980	11,485	13,631	15,300	13,935	16,980
Kentucky	8,151	8,219	8,532	8,798	9,285	9,747	10,366	10,777	11,248	11,713
Louisiana	17,048	16,586	16,700	17,124	16,716	15,313	15,890	14,071	16,309	16,889
Maryland	10	8	8	9	7	6	8	8	8	7
Michigan	448	484	414	535	655	651	722	988	1,207	1,438
Mississippi	470	596	552	683	710	414	775	634	543	585
Missouri	0	0	0	4	4	9	3	4	4	8
Montana	2,140	2,111	2,133	2,153	2,260	2,799	2,349	2,553	2,700	2,607
Nebraska	25	23	23	23	19	16	20	18	15	11
New Mexico	15,560	16,967	17,547	17,806	18,308	18,647	18,806	15,909	17,087	17,124
New York	2,636	2,969	3,423	3,500	4,500	4,947	5,167	5,090	5,304	5,525
North Dakota	65	66	51	55	62	61	61	61	61	103
Ohio	19,405	22,112	25,762	28,657	31,343	32,721	33,616	33,793	34,450	34,586
Oklahoma	18,451	20,742	22,230	3,691	24,756	25,762	26,595	27,307	27,443	24,547
Oregon	9	6	8	6	9	14	10	14	18	19
Pennsylvania	21,500	23,000	24,000	25,500	26,500	27,600	27,800	28,000	30,000	30,300
South Dakota	39	33	40	42	44	44	52	51	53	54
Tennessee(a)	255	340	540	780	988	921	840	802	700	690
Texas	40,612	44,130	44,699	45,139	44,320	42,713	43,375	50,588	48,609	50,867
Utah	226	282	322	700	755	594	645	665	834	822
Virginia	288	298	299	425	495	573	689	728	752	819
West Virginia	27,200	27,450	29,675	31,150	32,475	33,400	34,300	35,800	36,240	37,500
Wyoming	1,243	1,827	1,986	2,148	2,220	2,101	2,147	2,284	2,431	2,600
Other	0	0	0	0	0	0	0	0	0	0
Total	198,839	210,753	221,952	233,853	243,344	241,527	249,225	257,279	262,483	269,790

(a) Prior to 1948 included with Kentucky.
(b) Includes offshore wells in state waters only.

SOURCE: 1947-1980: U.S. Bureau of Mines, Natural Gas Annuals
1981-1990: U.S. Energy Information Administration, Natural Gas Annuals.

Section III
Table 18

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Alabama	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	221	281	344	380	418	449	502	519
Alaska	--	--	--	--	--	--	--	--	--	--	--	2	5	17	45	52	54	56
Arizona	--	--	--	--	--	--	--	--	--	--	--	1	2	3	5	4	9	8
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381	6,330	5,918	6,010	6,018
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771	38,184	39,265	40,233	40,916
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021	2,023	2,110	2,030	1,981
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	11	11	11	11	11	11	12	19
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995	31,911	30,174	30,149	29,500
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176	5,679	5,607	5,951	5,381
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460	40,933	46,750	46,951	46,715
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571	19,857	19,448	14,903	15,226
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682	24,740	26,382	27,638	29,452
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348	4,301	4,282	4,234	4,151
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3,086	2,819	2,560	2,682	2,580
Missouri	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	107	127	121	120	116	105	105	100
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707	3,342	3,692	3,642	3,329
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571	1,860	1,764	1,726	1,711
Nevada	--	--	--	--	--	--	(a)	--	--	--	2	2	2	2	4	4	4	5
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286	15,295	16,102	16,796	17,570
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579	17,829	13,537	13,431	12,526
North Dakota	--	--	--	(a)	(a)	83	257	460	570	789	920	1,150	1,390	1,451	1,683	1,794	1,824	1,881
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743	16,682	16,867	14,605	13,752
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720	79,387	80,799	81,475	80,511
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260	63,576	59,673	54,062	53,065
South Dakota	--	--	--	--	--	--	(a)	(a)	(a)	(a)	3	4	14	19	19	19	24	24
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	35	35	34	27	30	40	39	38
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934	196,396	197,659	198,070	199,119
Utah	--	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	225	519	697	796	795	852	835	840
Virginia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	4	6	7	5	5	5	6	8
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560	12,762	12,880	13,044	13,205
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475	7,880	7,581	7,611	8,019
Other	140	160	190	230	270	297	333	364	366	422	--	1	1	1	--	--	--	--
U.S. Federal Waters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	426,280	437,880	448,680	465,870	474,990	488,520	498,940	511,200	524,010	551,170	569,273	574,905	583,141	591,158	594,917	596,385	588,657	588,225

See notes and sources at end of table

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	518	524	532	546	550	562	556	544	586	582	608	633	631	648	660	684	692	719
Alaska	57	72	94	163	183	202	173	193	192	199	205	181	298	348	396	443	700	760
Arizona	10	6	20	22	29	28	30	28	28	25	28	27	29	34	35	31	35	36
Arkansas	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529	7,756	7,866	8,115	8,104	8,249	8,629
California	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534	43,525	43,375	43,838	45,086	47,362	47,231
Colorado	1,938	2,371	1,730	1,825	1,811	1,770	1,785	1,897	2,004	2,174	2,450	2,827	3,027	3,260	3,450	3,490	2,898	3,113
Florida	38	42	41	44	45	60	78	142	147	136	143	143	140	111	115	121	117	123
Illinois	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527	23,752	23,900	24,067	24,871	26,100	27,600
Indiana	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891	5,076	5,296	5,452	5,452	5,715	6,047
Kansas	47,354	46,016	47,597	45,145	44,665	43,490	42,180	41,055	41,520	41,755	41,945	42,240	42,450	42,900	43,200	48,037	42,402	46,189
Kentucky	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970	14,046	14,097	14,172	14,539	14,585	15,109
Louisiana	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274	23,881	24,500	24,767	26,014	25,320	22,380
Michigan	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770	3,903	3,890	3,890	4,900	4,417	4,536
Mississippi	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212	2,806	2,956	3,263	3,676	3,154	2,640
Missouri	142	150	146	128	164	126	139	137	135	157	163	173	175	167	251	258	421	499
Montana	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309	3,330	3,400	3,661	3,618	3,968	4,311
Nebraska	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291	1,382	1,469	1,551	1,693	1,870	2,006
Nevada	9	10	13	13	11	9	6	6	6	9	6	12	18	16	20	20	(a)	(a)
New Mexico	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939	14,338	17,453	21,526	15,103	16,289	16,526
New York	12,304	11,832	4,712	4,201	5,263	5,861	5,860	5,427	5,200	5,475	4,975	5,100	4,800	5,039	5,100	5,220	5,300	5,320
North Dakota	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568	1,608	2,305	2,624	2,938	2,570	2,870
Ohio	13,947	14,192	14,638	15,480	15,737	15,860	14,771	15,222	15,236	16,658	16,611	16,761	17,338	18,289	19,596	21,132	22,441	24,752
Oklahoma	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543	73,752	75,308	76,505	81,296	82,639	91,745
Pennsylvania	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805	28,400	27,768	27,925	25,991	26,138	25,285
South Dakota	28	29	28	27	26	26	33	29	27	31	38	43	69	85	94	97	120	130
Tennessee	33	32	33	32	35	59	78	73	67	154	172	215	283	311	351	435	489	650
Texas	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546	163,746	166,365	169,826	175,673	180,627	187,626
Utah	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188	1,448	1,291	1,560	1,714	1,543	1,583
Virginia	6	2	4	5	5	5	1	1	--	3	7	7	4	5	7	8	(a)	(a)
West Virginia	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800	13,900	14,100	14,250	14,425	14,700	14,900
Wyoming	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052	11,123	10,200	11,128	12,648	11,574	11,792
Other	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	39	50
U.S. Federal Waters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,535	4,985
Total	589,203	583,302	565,289	553,920	542,227	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752	531,395	547,717	557,009	580,142

See notes and sources at end of table

Section III
Table 18b

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1983	1984	1985	1986	1987	1988	1989	1990	1991
Alabama	741	759	810	844	875	892	931	872	888
Alaska	672	640	977	1,109	1,216	1,305	1,337	1,466	1,561
Arizona	34	31	28	24	23	20	25	22	22
Arkansas	8,370	9,490	9,700	10,047	8,398	7,865	7,865	7,265	8,450
California	47,197	48,541	49,874	43,717	45,694	45,819	43,745	43,375	43,501
Colorado	4,591	5,360	5,457	5,502	5,642	6,286	6,362	6,596	5,818
Florida	137	138	149	114	122	109	101	83	90
Illinois	28,967	30,045	31,100	32,025	32,307	32,262	32,441	31,874	32,255
Indiana	6,465	6,792	7,164	7,610	7,449	7,449	7,543	7,506	7,517
Kansas	49,348	49,198	51,888	48,816	48,051	47,484	44,969	45,470	48,628
Kentucky	15,562	19,980	21,844	22,639	22,974	22,883	22,859	22,741	22,769
Louisiana	23,376	24,508	26,354	29,921	29,758	27,079	22,872	23,812	23,612
Michigan	4,913	4,881	5,143	4,885	4,996	4,866	5,557	4,570	4,508
Mississippi	2,727	2,562	3,468	2,235	2,143	2,050	3,589	2,169	1,892
Missouri	552	557	581	450	200	286	807	854	846
Montana	4,675	4,201	4,196	3,933	4,050	4,128	4,001	3,846	3,750
Nebraska	2,100	2,095	2,091	1,838	1,852	1,824	1,787	1,440	1,751
Nevada	(a)	37	45	29	35	38	46	46	50
New Mexico	17,409	18,146	18,697	18,409	18,401	17,890	17,787	18,546	17,638
New York	5,432	4,678	4,811	4,632	4,428	4,245	4,350	4,043	3,893
North Dakota	3,734	3,404	3,697	3,543	3,474	3,511	3,442	3,546	3,486
Ohio	26,287	26,878	27,975	29,937	30,013	30,134	30,194	30,089	30,042
Oklahoma	95,868	99,600	102,342	100,261	101,745	97,685	96,344	81,667	101,438
Pennsylvania	24,657	20,739	24,000	20,000	14,271	28,000	27,218	22,338	21,727
South Dakota	140	138	165	148	149	151	156	149	154
Tennessee	693	775	798	806	648	720	713	736	736
Texas	195,595	203,664	209,040	201,272	198,163	198,008	186,226	188,829	192,459
Utah	1,634	1,799	1,944	1,858	1,785	1,849	2,234	1,972	2,132
Virginia	(a)	(a)	28	32	29	29	20	25	25
West Virginia	15,300	15,475	15,895	15,750	15,850	15,950	15,940	15,950	16,000
Wyoming	11,349	11,561	12,038	11,879	10,953	11,850	11,539	11,397	11,620
Other	55	31	0	0	0	0	0	0	0
U.S. Federal Waters	4,710	4,104	4,327	4,425	4,487	4,526	3,881	4,468	4,552
Total	603,290	620,807	646,626	628,690	620,181	627,193	606,881	587,762	613,810

(a) Included in Other.

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991: World Oil Magazine, Forecast Review issue, February

Section III
Table 19

Producing Oil Wells by State and by Type
(As of December 31)

State	1947		1948		1949		1950		1951		1952		1953	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	33	0	33	0	39	0	58	0	75	4	92	2	110
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	378	2,992	340	3,040	291	3,076	361	3,266	312	3,329	350	3,578	336	3,699
California	2,363	22,792	2,136	24,413	2,373	22,127	2,143	25,963	1,934	27,656	1,866	29,005	1,834	29,950
Colorado	127	411	113	611	87	662	191	572	135	700	85	886	132	1,098
Florida	4	1	5	3	5	6	1	11	1	11	1	11	0	12
Illinois	68	28,405	58	30,261	71	31,169	16	33,113	12	32,873	7	33,727	5	34,417
Indiana	2	2,807	18	3,252	35	3,739	12	3,946	18	4,222	22	4,473	9	4,825
Kansas	85	26,846	143	24,975	62	29,033	73	30,093	45	31,215	58	32,018	42	33,272
Kentucky	0	14,509	0	14,554	0	14,895	5	15,260	36	15,524	0	15,806	0	16,234
Louisiana	3,168	4,516	3,367	5,508	3,320	6,689	3,477	7,667	3,417	8,106	3,591	8,770	4,354	8,583
Michigan	276	3,356	296	3,131	387	3,268	141	3,577	155	3,730	134	3,858	123	3,863
Mississippi	416	636	495	737	476	885	280	1,168	126	1,466	206	1,504	307	1,536
Missouri	0	36	0	48	0	88	0	46	0	43	0	70	0	91
Montana	24	2,455	24	3,140	39	2,865	20	3,086	22	3,188	30	3,286	51	3,421
Nebraska	0	55	0	46	0	62	35	107	27	181	2	221	0	302
Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	3,636	1,395	3,288	2,004	3,014	2,509	3,232	2,597	3,283	2,768	3,462	3,141	3,644	3,606
New York	0	23,000	0	23,000	0	23,400	0	23,200	0	23,100	0	23,000	0	23,000
North Dakota	0	0	0	0	0	0	0	0	2	0	68	17	179	73
Ohio	50	22,825	65	22,945	60	21,740	50	19,750	50	18,450	40	19,410	70	19,400
Oklahoma	1,485	50,405	1,380	51,731	1,426	52,934	1,740	55,086	1,605	56,715	1,485	58,762	2,120	60,956
Pennsylvania	0	82,800	0	84,000	0	82,100	0	82,200	0	81,200	0	81,200	0	80,500
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tennessee	0	22	0	29	0	35	0	36	0	34	0	35	0	29
Texas	37,070	67,909	37,970	71,673	39,203	76,280	41,949	81,322	44,016	86,293	45,784	90,615	45,976	94,884
Utah	0	0	2	1	22	0	3	30	4	38	10	51	3	66
Virginia	0	12	0	15	0	15	0	15	0	15	0	25	0	25
Washington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	17,000	0	16,200	0	15,900	0	15,200	0	14,600	0	14,200	0	13,600
Wyoming	247	3,905	336	4,222	464	4,452	323	4,887	313	5,292	242	4,614	278	4,841
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	49,399	379,123	50,036	389,572	51,335	397,969	54,052	412,256	55,513	420,824	57,447	432,375	59,465	442,394

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1954		1955		1956		1957		1958		1959		1960	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	5	108	11	102	62	97	35	181	27	227	29	244	0	380
Alaska	0	0	0	0	0	0	0	0	1	0	5	0	18	0
Arizona	0	0	0	0	0	0	0	0	0	0	1	0	2	1
Arkansas	270	3,925	410	4,057	382	4,419	246	5,173	232	5,417	178	5,881	183	5,810
California	1,770	31,303	1,759	32,571	1,599	34,625	1,496	35,756	1,290	35,170	1,115	36,101	1,196	36,388
Colorado	97	1,633	345	1,784	433	1,724	572	1,612	573	1,625	382	1,701	127	1,892
Florida	0	13	0	11	0	11	0	11	0	11	0	11	0	11
Illinois	10	35,155	27	36,758	29	37,689	213	37,828	231	38,366	128	38,736	67	38,239
Indiana	3	4,954	23	5,011	19	5,160	300	4,816	173	5,094	169	5,303	86	5,381
Kansas	31	34,523	121	35,452	127	36,986	103	38,466	131	39,133	243	39,921	312	46,270
Kentucky	0	16,593	12	17,008	21	17,681	19	18,238	8	18,982	19	21,137	13	20,733
Louisiana	4,937	9,588	5,855	10,817	6,998	11,737	7,991	12,224	8,537	13,176	9,280	13,805	8,896	14,389
Michigan	190	3,842	550	3,689	550	3,453	615	3,397	41	4,198	59	4,332	850	3,704
Mississippi	319	1,547	497	1,617	628	1,801	327	2,005	352	2,087	383	2,236	277	2,347
Missouri	0	89	0	97	0	130	0	120	0	119	0	95	0	121
Montana	110	3,641	311	3,587	512	3,516	585	3,261	407	3,210	331	3,375	33	3,478
Nebraska	0	547	31	932	19	1,602	87	1,616	26	1,320	21	1,473	15	1,627
Nevada	0	1	0	3	0	3	0	2	0	2	0	2	0	2
New Mexico	3,710	3,656	3,502	4,727	3,563	5,424	4,259	5,809	3,972	6,839	4,530	7,657	5,323	7,261
New York	0	22,500	0	22,300	0	21,300	0	19,200	0	19,765	0	19,275	0	19,000
North Dakota	353	88	444	92	458	313	543	395	503	640	392	988	74	1,343
Ohio	90	15,210	80	14,660	75	14,745	130	14,700	175	14,850	160	14,768	150	14,560
Oklahoma	2,860	64,551	3,180	71,430	2,773	73,019	2,264	75,623	2,771	76,981	2,987	78,128	3,147	80,459
Pennsylvania	0	80,000	0	78,500	0	76,500	0	69,700	0	68,050	0	67,580	10	65,000
South Dakota	0	2	0	3	0	3	0	3	1	3	0	11	0	19
Tennessee	0	44	0	25	0	40	0	35	0	31	0	30	0	27
Texas	47,032	100,712	47,669	108,811	48,513	117,473	48,098	125,861	47,897	131,781	47,366	138,298	45,722	143,789
Utah	1	81	2	68	23	87	129	210	307	241	346	317	352	404
Virginia	0	25	0	25	0	20	0	0	0	0	0	0	0	8
Washington	0	0	0	0	0	0	2	0	1	0	1	0	1	0
West Virginia	0	13,000	0	12,500	0	12,000	0	12,700	0	12,740	0	12,885	0	12,950
Wyoming	368	5,321	535	5,681	473	5,959	513	6,074	467	6,334	489	6,629	413	7,117
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	62,156	452,651	65,364	472,318	67,257	487,517	68,527	495,016	68,123	506,392	68,614	520,919	67,267	532,710

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

	1961		1962		1963		1964		1965		1966		1967	
State	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	414	0	447	0	499	0	479	0	530	0	520	4	529
Alaska	45	0	50	2	48	7	37	17	25	35	42	15	70	19
Arizona	0	4	0	13	0	5	0	10	6	4	6	4	(a)	(a)
Arkansas	190	6,267	543	5,301	160	5,239	150	5,950	212	5,730	104	5,453	197	6,237
California	1,033	37,203	1,213	37,980	1,251	39,099	1,270	39,510	1,204	40,323	1,176	40,516	1,026	40,597
Colorado	115	1,864	110	1,865	72	1,888	58	1,832	61	1,771	42	1,649	37	1,773
Florida	0	11	0	11	0	12	0	16	2	36	0	41	(a)	(a)
Illinois	74	39,381	0	30,196	0	30,114	0	29,319	0	29,012	20	28,550	0	27,874
Indiana	84	5,792	0	5,887	0	5,937	0	5,949	0	4,149	0	4,149	0	3,637
Kansas	270	46,920	275	47,286	278	47,587	300	48,700	300	46,200	300	40,622	400	45,925
Kentucky	15	20,746	0	19,800	0	19,000	0	15,726	0	15,600	0	16,000	500	13,500
Louisiana	9,420	14,612	10,951	14,691	11,692	16,037	12,401	17,260	12,982	17,921	12,338	18,546	12,435	18,511
Michigan	931	3,413	832	3,538	915	3,188	915	3,660	890	3,153	800	3,204	777	3,291
Mississippi	289	2,408	525	2,035	554	2,139	342	2,238	354	2,159	362	2,187	348	2,172
Missouri	0	120	0	111	0	118	0	87	0	100	0	142	(a)	(a)
Montana	33	3,404	41	3,659	36	3,552	34	3,960	46	3,677	11	3,582	38	3,724
Nebraska	18	1,967	0	1,855	5	1,769	5	1,733	5	1,614	0	1,493	4	1,457
Nevada	0	2	0	2	0	4	0	5	0	9	0	10	(a)	(a)
New Mexico	4,880	8,857	5,324	8,909	4,861	9,003	4,814	9,828	4,682	9,753	3,499	10,798	3,645	10,712
New York	0	18,000	0	13,500	0	13,100	0	12,800	0	11,700	100	12,200	100	12,000
North Dakota	92	1,453	567	1,015	600	1,206	453	1,428	524	1,439	315	1,718	250	1,513
Ohio	145	14,305	150	14,350	80	14,525	50	13,683	60	13,873	50	14,133	50	14,240
Oklahoma	3,775	81,048	3,750	77,795	3,840	77,686	3,857	76,602	3,800	76,200	4,000	77,477	4,000	76,971
Pennsylvania	0	61,896	0	56,900	20	55,360	22	53,043	18	52,713	75	50,570	50	45,376
South Dakota	0	24	0	18	0	24	0	24	0	29	0	29	(a)	(a)
Tennessee	0	30	0	30	0	40	0	41	0	42	0	34	(a)	(a)
Texas	44,936	147,587	44,202	149,526	42,218	152,251	40,481	154,088	39,052	155,618	36,160	155,281	33,060	155,761
Utah	349	602	320	500	318	520	15	926	9	852	10	861	15	981
Virginia	0	8	0	5	0	6	0	6	0	7	0	2	(a)	(a)
Washington	1	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	12,350	0	12,800	0	13,000	0	13,200	0	13,400	0	13,300	0	14,250
Wyoming	408	7,417	400	9,000	455	7,459	450	7,481	400	7,594	422	8,012	456	8,091
Other	--	--	--	--	--	--	--	--	0	0	0	0	3	263
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	67,103	538,105	69,253	519,027	67,403	520,374	65,654	519,601	64,632	515,243	59,832	511,098	57,465	509,404

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

	1968		1969		1970		1971		1972		1973		1974	
State	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	5	542	7	467	8	468	14	524	27	499	44	510	35	384
Alaska	93	86	58	135	41	120	53	130	58	139	52	140	42	186
Arizona	0	(a)	0	0	(a)	(a)	0	29	1	22	1	22	0	28
Arkansas	83	5,896	106	6,012	100	6,100	60	7,086	69	7,168	96	6,328	123	6,993
California	1,428	40,103	1,390	39,505	1,350	37,718	1,300	39,298	421	39,865	496	42,847	453	39,777
Colorado	33	1,782	30	1,748	37	1,733	50	1,845	110	1,709	134	1,721	119	1,921
Florida	0	(a)	0	0	(a)	(a)	8	65	68	67	81	64	63	70
Illinois	0	27,242	0	26,737	0	26,298	0	25,369	0	24,736	0	24,307	0	23,718
Indiana	0	3,621	0	3,646	0	3,607	0	3,600	0	4,379	0	4,323	0	4,376
Kansas	400	44,755	350	44,390	350	44,315	325	41,960	325	40,730	319	42,181	275	41,480
Kentucky	609	13,000	532	13,220	502	14,000	557	14,100	560	14,056	100	14,316	0	14,129
Louisiana	11,018	19,015	10,756	18,861	9,064	19,214	7,534	18,216	7,388	19,208	6,203	21,666	6,545	21,428
Michigan	686	3,587	551	3,821	677	3,196	650	3,200	668	3,129	659	3,082	682	3,132
Mississippi	328	2,271	303	2,245	290	2,276	300	2,255	275	2,298	202	2,108	180	2,074
Missouri	0	(a)	0	0	(a)	(a)	0	139	0	138	0	135	0	137
Montana	14	3,252	25	3,460	3	3,159	23	3,707	19	3,196	3	3,533	7	3,021
Nebraska	3	1,404	2	1,369	6	1,299	4	1,190	4	1,176	0	1,118	0	1,109
Nevada	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
New Mexico	3,277	11,106	3,186	11,152	3,198	11,075	2,388	10,997	2,386	11,048	2,300	11,138	2,143	11,139
New York	0	11,500	0	9,500	0	5,000	0	5,860	0	5,500	0	5,400	0	5,475
North Dakota	224	1,503	495	1,155	229	1,506	263	1,453	225	1,340	224	1,237	243	1,245
Ohio	60	14,347	80	14,584	60	14,727	50	14,581	295	14,491	304	14,847	302	14,847
Oklahoma	4,000	76,999	4,000	76,947	4,000	74,212	4,000	71,549	4,000	69,807	3,943	69,082	3,879	67,969
Pennsylvania	50	35,950	50	33,950	70	30,555	70	29,731	80	26,949	75	32,521	75	30,825
South Dakota	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
Tennessee	0	(a)	0	0	(a)	(a)	12	59	16	40	6	61	31	56
Texas	31,525	152,452	28,934	149,837	26,199	146,014	24,305	149,902	22,680	148,689	19,998	139,314	20,063	140,011
Utah	15	881	15	867	23	884	46	828	87	812	82	1,362	230	989
Virginia	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
Washington	0	0	0	0	0	0	0	(a)	0	(a)	(a)	(a)	(a)	(a)
West Virginia	0	14,000	0	13,800	0	13,700	0	13,500	0	13,530	0	13,600	0	13,650
Wyoming	527	8,396	687	8,386	700	8,800	650	8,600	600	8,350	535	7,107	606	8,050
Other	0	263	0	289	21	273	0	36	0	72	10	31	9	28
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	54,378	493,953	51,557	486,083	46,928	470,249	42,662	469,809	40,362	463,143	35,867	464,101	36,105	458,247

See notes and sources at end of table

Section III
Table 19d

Producing Oil Wells by State and by Type
(As of December 31)

State	1975		1976		1977		1978		1979		1980		1981	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	36	530	40	593	40	597	55	575	57	457	57	612	103	589
Alaska	36	164	38	152	135	156	188	178	240	160	412	230	296	404
Arizona	0	28	0	27	0	28	0	31	0	35	0	32	0	35
Arkansas	125	6,947	140	7,072	155	7,348	197	7,356	202	7,496	140	7,964	156	8,093
California	370	40,569	496	44,287	481	42,973	517	44,482	1,635	43,039	1,667	43,924	1,592	45,770
Colorado	108	2,232	111	2,265	213	2,832	226	3,001	183	3,219	188	3,302	151	2,747
Florida	72	72	66	78	144	0	50	65	43	72	40	80	42	75
Illinois	0	23,360	0	23,509	0	23,828	0	23,869	0	24,067	0	24,745	0	26,100
Indiana	0	4,380	0	4,798	0	4,891	0	5,076	0	5,296	0	5,452	0	5,715
Kansas	250	41,695	200	42,050	200	42,250	204	43,054	223	47,156	60	47,397	42	42,360
Kentucky	0	14,231	0	13,970	0	14,046	0	14,149	0	14,097	0	14,517	0	14,585
Louisiana	5,979	21,755	6,128	20,272	2,228	21,653	2,244	22,256	4,251	20,516	4,226	21,788	3,871	21,449
Michigan	548	3,107	608	3,162	603	3,300	547	3,343	547	3,343	585	3,524	631	3,786
Mississippi	160	2,077	149	2,063	152	2,108	88	2,166	91	2,465	120	2,511	144	3,010
Missouri	0	157	0	145	0	161	0	161	0	188	20	238	0	421
Montana	7	3,143	12	3,298	70	3,284	328	2,947	375	3,198	325	3,303	375	3,593
Nebraska	0	1,127	0	1,292	0	1,369	0	1,455	0	1,535	4	1,675	0	1,870
Nevada	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
New Mexico	2,255	11,395	2,313	11,533	2,405	11,860	2,144	12,254	2,723	12,322	2,565	13,181	2,986	13,303
New York	0	4,975	0	5,000	0	4,800	0	4,900	0	4,800	0	5,000	0	5,300
North Dakota	236	1,248	269	1,302	297	1,341	358	1,374	404	1,504	554	1,736	622	1,948
Ohio	288	14,877	310	15,143	347	17,016	362	17,735	384	18,793	409	20,042	447	21,994
Oklahoma	4,089	67,568	4,131	68,257	4,203	69,450	4,247	70,623	4,345	72,160	4,332	74,131	4,563	78,076
Pennsylvania	50	32,200	65	32,000	50	28,755	50	28,350	56	27,712	56	27,869	52	26,086
South Dakota	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	3	85	3	115	0	120
Tennessee	55	94	75	122	115	157	119	160	144	194	106	335	117	372
Texas	18,584	152,462	16,997	143,678	16,168	147,647	16,109	149,708	16,665	151,458	16,571	157,940	17,351	163,276
Utah	121	935	100	1,088	369	494	552	739	576	770	436	1,042	419	1,124
Virginia	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
Washington	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
West Virginia	0	13,750	0	13,800	0	13,900	0	14,100	0	14,225	0	14,425	0	14,700
Wyoming	662	8,788	720	9,307	725	9,378	718	9,293	724	9,335	736	9,491	833	10,741
Other	9	28	1	17	13	74	0	106	0	28	0	31	0	39
U.S. Federal Waters	--	--	--	--	2,702	829	2,624	805	915	2,344	917	2,349	3,267	1,268
U.S. Total	34,040	473,900	32,969	470,299	31,815	476,525	31,927	484,311	34,786	492,069	34,529	508,981	38,060	518,949

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1982 Flowing	1982 Artificial Lift	1983 Flowing	1983 Artificial Lift	1984 Flowing	1984 Artificial Lift	1985 Flowing	1985 Artificial Lift	1986 Flowing	1986 Artificial Lift	1987 Flowing	1987 Artificial Lift	1988 Flowing	1988 Artificial Lift
Alabama	122	597	102	639	50	709	91	719	102	742	68	807	91	801
Alaska	330	430	406	266	370	270	481	496	591	518	621	595	654	651
Arizona	0	36	0	34	0	31	0	28	0	24	0	23	0	20
Arkansas	173	8,456	168	8,202	189	9,301	195	9,505	201	9,846	185	8,213	150	7,715
California	1,470	45,761	1,482	45,715	1,423	47,118	1,455	48,419	1,419	42,298	1,210	44,484	1,074	44,745
Colorado	218	2,895	304	4,287	571	4.789	491	4,966	490	5,012	491	5,151	534	5,752
Florida	50	73	62	75	57	81	67	82	46	68	57	65	51	58
Illinois	0	27,600	0	28,967	0	28,920	0	31,100	0	32,025	0	32,307	0	32,262
Indiana	0	6,047	0	6,465	0	6,792	0	7,164	0	7,610	0	7,449	0	7,449
Kansas	46	46,143	53	49,295	49	49,149	75	51,813	73	48,743	70	47,981	65	47,419
Kentucky	0	15,109	0	15,562	0	19,980	0	21,844	0	22,639	0	22,974	0	22,883
Louisiana	2,001	20,379	2,110	21,266	2,168	22,340	2,285	23,538	2,205	22,430	2,356	27,402	2,205	24,874
Michigan	636	3,900	663	4,250	749	4,132	600	4,525	635	4,250	652	4,344	630	4,236
Mississippi	132	2,508	135	2,592	259	2,303	116	3,352	179	2,056	188	1,955	207	1,843
Missouri	0	499	0	552	0	557	0	581	0	450	0	200	0	286
Montana	350	3,961	400	4,275	424	4,292	378	3,818	362	3,571	364	3,686	375	3,753
Nebraska	0	2,006	0	2,100	0	2,095	0	2,091	0	1,838	0	1,852	0	1,824
Nevada	0	(a)	0	(a)	(a)	(a)	4	41	6	23	3	32	7	31
New Mexico	3,068	13,458	3,161	14,248	3,303	14,843	3,444	15,253	3,403	15,006	3,460	14,941	3,261	14,629
New York	0	5,320	7	5,425	28	4,650	20	4,791	10	4,622	10	4,418	3	4,242
North Dakota	800	2,070	717	3,017	830	2,574	927	2,770	641	2,902	599	2,875	592	2,919
Ohio	470	24,282	523	25,764	535	26,343	556	27,419	386	29,551	387	29,626	389	29,745
Oklahoma	5,046	86,699	4,794	91,074	4,980	94,620	5,150	97,850	5,013	95,248	5,087	96,658	4,886	92,799
Pennsylvania	52	25,233	47	24,610	0	20,739	0	24,000	0	20,000	0	14,271	0	28,000
South Dakota	0	130	0	140	0	138	0	165	0	148	0	149	0	151
Tennessee	120	530	126	567	139	636	137	661	0	806	0	648	0	720
Texas	16,170	171,456	15,182	180,413	15,216	188,448	16,247	192,793	14,147	187,125	13,220	184,943	13,253	184,755
Utah	396	1,187	388	1,246	360	1,439	389	1,555	372	1,486	365	1,420	346	1,506
Virginia	0	(a)	0	(a)	(a)	(a)	(a)	(a)	0	32	0	29	1	28
Washington	0	(a)	0	(a)	(a)	(a)	(a)	(a)	0	0	0	0	0	0
West Virginia	0	14,900	0	15,300	0	15,475	0	15,895	0	15,750	0	15,850	0	15,950
Wyoming	825	10,967	794	10,555	809	10,752	831	11,207	784	11,095	788	10,165	805	11,045
Other	1	49	0	55	5	63	0	28	0	0	0	0	0	0
U.S. Federal Waters	3,589	1,396	1,370	3,340	3,590	514	3,726	601	4,083	342	2,689	1,798	2,921	1,605
U.S. Total	36,065	544,077	32,994	570,296	36,104	584,093	37,665	609,070	35,148	588,256	32,870	587,311	32,500	594,696

See notes and sources at end of table

Section III
Table 19f

Producing Oil Wells by State and by Type
(As of December 31)

State	1989 Flowing	1989 Artificial Lift	1990 Flowing	1990 Artificial Lift	1991 Flowing	1991 Artificial Lift
Alabama	85	846	66	806	73	815
Alaska	698	639	767	699	751	810
Arizona	0	25	0	22	0	22
Arkansas	150	4,190	100	7,165	100	8,350
California	1,534	42,211	993	42,382	813	42,688
Colorado	541	5,821	666	5,930	588	5,230
Florida	59	42	41	42	53	37
Illinois	0	32,441	0	31,874	0	32,255
Indiana	0	7,543	0	7,506	0	7,517
Kansas	58	44,911	59	45,411	0	48,628
Kentucky	0	22,859	0	22,741	0	22,769
Louisiana	2,008	20,864	2,001	21,811	1,970	21,642
Michigan	1,338	4,219	605	3,965	603	3,905
Mississippi	363	3,226	221	1,948	140	1,752
Missouri	0	807	0	854	0	846
Montana	363	3,638	349	3,497	340	3,410
Nebraska	0	1,787	0	1,440	0	1,751
Nevada	10	36	8	38	7	43
New Mexico	3,170	14,617	3,110	15,436	3,080	14,558
New York	1	4,349	1	4,042	1	3,892
North Dakota	543	2,899	536	3,010	424	3,062
Ohio	400	29,794	375	29,714	350	29,692
Oklahoma	4,817	91,527	4,080	77,587	11,438	90,000
Pennsylvania	0	27,218	0	22,338	0	21,727
South Dakota	0	156	0	149	0	154
Tennessee	0	713	0	736	0	736
Texas	12,548	173,678	11,742	177,087	14,953	177,506
Utah	112	2,122	99	1,873	107	2,025
Virginia	0	20	0	25	0	25
Washington	0	0	0	0	0	0
West Virginia	0	15,940	0	15,950	0	16,000
Wyoming	863	10,676	850	10,547	867	10,753
Other	0	0	0	0	0	0
U.S. Federal Waters	2,292	1,589	2,817	1,651	2,959	1,593
U.S. Total	31,953	571,403	29,486	558,276	39,617	574,193

(a) Included in other.

SOURCE: World Oil Magazine, February issue.

United States Stripper Wells by State
(As of January 1)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Alabama	0	0	14	39	44	75	71	78	69	78	68	73	92	95	98	100	124	
Arizona	0	2	2	1	4	6	7	7	7	8	10	12	14	17	14	14	16	
Arkansas	5,997	5,961	6,203	6,201	6,094	6,100	6,025	6,736	6,822	6,767	6,820	5,847	5,167	7,218	4,738	4,942	4,416	
California	21,395	23,753	31,391	31,466	34,559	32,124	29,983	28,328	24,198	25,957	25,400	26,566	26,354	26,358	26,650	29,230	29,044	
Colorado	740	774	807	867	818	881	942	990	1,016	1,074	1,143	1,255	1,354	1,861	1,690	1,798	4,269	
Illinois	26,095	25,202	24,363	23,960	23,279	23,222	23,275	23,499	23,622	23,860	24,501	25,472	26,813	28,566	29,942	30,593	31,649	
Indiana	7,246	6,995	7,570	4,251	3,962	4,654	4,853	5,056	5,038	5,092	5,022	5,874	5,353	5,854	6,134	5,457	5,165	(a)
Kansas	40,513	39,552	39,853	40,176	40,105	40,597	41,764	42,273	43,154	44,686	41,876	42,924	44,521	47,592	45,749	48,235	50,182	
Kentucky	14,615	14,585	14,511	14,201	13,914	13,690	13,817	14,046	13,953	14,028	14,075	14,130	14,275	17,000	16,433	17,674	17,992	
Louisiana	12,561	12,318	12,907	12,649	12,808	12,723	13,185	13,189	13,600	12,131	15,889	15,950	12,010	16,500	16,500	16,000	15,500	
Michigan	3,555	3,392	3,389	3,356	3,370	3,330	3,260	3,276	3,331	3,405	3,325	3,057	3,361	3,367	3,500	3,475	3,285	(a)
Mississippi	344	313	211	217	278	310	617	654	657	813	1,523	2,138	1,923	837	837	811	681	(a)
Missouri	126	139	137	137	157	163	173	161	144	157	301	440	530	548	548	429	388	
Montana	1,951	1,311	1,186	1,295	1,338	1,873	1,918	1,945	1,983	1,996	2,082	2,058	2,243	2,673	3,085	3,376	3,493	
Nebraska	437	484	417	526	577	638	812	919	987	1,037	1,223	1,414	1,585	1,672	1,707	1,716	1,637	
New Mexico	9,058	9,143	9,122	9,458	9,991	10,274	10,544	10,956	11,401	11,829	12,519	13,226	13,882	14,280	14,749	15,199	14,466	
New York	5,861	5,522	5,528	5,282	4,828	5,231	4,916	4,913	4,700	5,000	5,220	5,345	5,259	4,228	4,532	4,448	4,309	
North Dakota	679	721	749	635	529	569	655	687	741	782	878	836	959	922	1,016	1,091	1,106	
Ohio	14,447	14,653	14,863	14,906	15,406	15,482	15,586	16,122	17,006	18,222	19,650	21,982	22,966	24,263	25,129	26,412	28,652	
Oklahoma	55,718	54,712	54,788	57,000	59,817	58,736	53,357	56,239	59,971	64,893	66,128	69,781	73,328	77,729	82,431	83,034	84,425	
Pennsylvania	36,801	34,029	32,596	31,539	32,095	31,661	31,274	28,400	27,768	27,925	25,991	25,285	23,438	21,831	19,540	11,877	14,271	
South Dakota	0	11	12	12	8	9	10	16	11	10	12	23	33	33	30	24	17	
Tennessee	44	46	41	53	99	133	159	213	265	318	387	398	NA	716	689	952	848	
Texas	85,117	84,950	83,666	82,302	87,412	89,027	91,498	92,887	96,713	98,487	103,594	107,596	111,671	117,178	126,202	130,311	123,796	
Utah	37	44	53	84	74	48	77	74	95	106	125	196	NA	217	348	519	853	
Virginia	3	3	1	0	3	7	7	4	5	7	8	12	20	26	32	30	49	
West Virginia	13,150	13,270	13,375	13,500	13,600	13,680	13,800	13,875	13,925	14,000	14,150	14,300	14,550	14,900	15,200	15,500	15,800	
Wyoming	2,640	1,811	1,716	1,116	926	2,629	3,148	3,387	3,453	3,642	3,252	3,349	4,792	5,020	5,020	5,200	3,996	
Total	359,130	353,696	359,471	355,229	366,095	367,872	365,733	368,930	374,635	386,310	395,172	409,539	416,493	441,501	452,543	458,447	460,429	

See notes and sources at end of table

Section III
Table 20a

United States Stripper Wells by State
(As of January 1)

State	1988	1989	1990	1991
Alabama	122	148	498	514
Arizona	15	13	13	12
Arkansas	4,438	7,597	7,428	7,290
California	26,988	26,527	25,828	26,128
Colorado	5,097	5,069	6,357	5,234
Illinois	31,883	32,358	34,417	33,700
Indiana	4,985 (a)	6,171	6,281	5,764
Kansas	51,953	46,720	45,559	45,227
Kentucky	18,073	18,306	19,358	19,330
Louisiana	15,000	16,500	14,788	17,695
Michigan	3,015 (a)	3,040	3,110 (a)	3,967 (a)
Mississippi	644	606	561	615
Missouri	289	700	668	375
Montana	3,300	3,267	3,116	3,084
Nebraska	1,589	1,505	1,247	1,269
New Mexico	14,622	14,723	15,050	15,261
New York	4,221	4,011	3,968	3,748
North Dakota	1,125	1,186	1,180	1,205
Ohio	28,908	29,251	29,634	29,576
Oklahoma	77,154	74,598	70,741	73,345
Pennsylvania	13,255	17,303	22,338	21,800
South Dakota	27	17	24	26
Tennessee	853	934	839	923
Texas	123,945	123,802	119,693	127,790
Utah	824	796	897	1,026
Virginia	51	53	44	22
West Virginia	15,925	15,790	15,970	15,975
Wyoming	3,486	3,159	2,982	2,953
Total	451,787	454,150	452,589	463,854

(a) Estimate.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association, National Stripper Well Survey

United States Stripper Well Abandonments by State
(As of January 1)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	0	0	0	19	1	1	8	2	9	3	14	2	4	1	3	1	2
Arizona	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0
Arkansas	76	76	55	73	99	26	19	17	42	8	3	5	91	39	62	85	110
California	746	1,197	727	1,042	614	695	563	782	881	824	781	1,146	886	578	1,126	1,182	614
Colorado	103	105	141	84	99	75	94	57	42	40	31	37	N.A.	N.A.	36	94	98
Illinois	903	1,096	1,006	644	1,037	766	574	420	400	354	352	303	262	145	629	390	343
Indiana	118	96	108	127	100	154	97	97	44	72	262	201	425	428	366	387	397 (a)
Kansas	1,595	2,433	1,356	1,173	1,900	1,195	753	605	559	541	481	657	1,363	1,583	1,505	1,693	1,584
Kentucky	367	345	366	397	523	534	306	220	252	198	77	86	256	397	393	391	516
Louisiana	385	506	630	562	349	302	310	226	182	134	59	166	160	637	852	1,213	1,326 (a)
Michigan	91	127	95	102	71	51	31	34	47	42	33	61	N.A.	99	107	115	127 (a)
Mississippi	24	34	25	16	22	15	21	29	173	113	58	60	82	86	96	98	103 (a)
Missouri	31	0	0	0	0	13	0	12	17	0	0	3	61	0	N.A.	0	34
Montana	889	200	119	29	11	11	7	7	12	29	28	17	55	N.A.	430	450	75
Nebraska	47	50	50	72	74	9	10	14	59	17	18	11	15	18	36	36	45
New Mexico	856	770	749	691	536	499	443	417	432	448	420	435	621	628	644	721	1,761
New York	629	419	573	544	622	553	442	455	352	117	119	161	249	70	140	226	449 (a)
North Dakota	3	13	78	5	2	4	4	3	6	5	4	4	15	24	12	78	50
Ohio	650	460	369	440	611	446	310	202	171	229	176	164	226	297	354	612	291
Oklahoma	2,705	2,273	1,604	1,737	1,869	1,739	881	793	656	623	596	644	835	1,093	1,491	1,156	1,442
Pennsylvania	1,376	3,824	1,632	1,951	346	434	1,421	1,034	899	1,229	809	733	863	880	848	930	955 (a)
South Dakota	–	0	0	0	4	1	0	1	2	6	3	2	3	4	4	0	4
Tennessee	0	0	12	7	6	9	6	5	13	6	7	11	N.A.	N.A.	0	N.A.	N.A.
Texas	3,860	4,265	3,682	3,884	4,608	5,716	3,177	3,057	2,599	2,268	1,938	1,948	2,920	3,980	4,931	6,015	7,585
Utah	3	6	6	25	26	39	47	56	54	62	10	12	N.A.	24	22	75	89 (a)
Virginia	2	0	0	1	1	0	0	1	0	1	1	0	0	0	3	2	5 (a)
West Virginia	92	80	38	26	124	114	53	13	10	10	10	14	34	20	79	74	24
Wyoming	80	46	62	105	124	77	339	441	467	289	323	331	N.A.	N.A.	N.A.	N.A.	1,204
U.S. TOTAL	15,631	18,421	13,483	13,756	13,779	13,478	9,916	9,000	8,380	7,668	6,614	7,215	9,426	11,032	14,170	16,024	19,233

See notes and sources at end of table

Section III
Table 21a

United States Stripper Well Abandonments by State
(As of January 1)

State	1988		1989		1990		1991	
Alabama	7		6		8		13	
Arizona	0		0		0		1	
Arkansas	106		138		169		140	
California	875		1,041		1,464		2,563	
Colorado	224		218		427		228	
Illinois	533		183		295		1,004	
Indiana	411	(a)	446		245		318	
Kansas	1,521		1,883		1,470		1,704	
Kentucky	772		487		443		264	
Louisiana	1,267	(a)	1,116		428		411	
Michigan	170	(a)	157	(a)	138	(a)	146	(a)
Mississippi	137	(a)	118		120		139	
Missouri	51	(a)	46	(a)	41	(a)	42	
Montana	140		182		126		98	
Nebraska	39		30		43		60	
New Mexico	1,000		1,087		882		861	
New York	354		290		201		554	
North Dakota	55		55		91		47	
Ohio	343		442		347		354	
Oklahoma	1,779		2,098		2,138		2,008	
Pennsylvania	996	(a)	943		1,138		967	
South Dakota	1		1		1		0	
Tennessee	110		105	(a)	95	(a)	101	(a)
Texas	6,708		5,924		5,422		4,959	
Utah	93	(a)	48		73		16	
Virginia	1		2		5		0	
West Virginia	38		50		34		26	
Wyoming	510		327		263		211	
U.S. TOTAL	18,241		17,423		16,107		17,235	

N.A. = Not Available
(a) Estimate.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association.
National Stripper Well Survey

Section III
Table 22

Producing Oil Wells Worldwide
(As of December 31)(a)

COUNTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	386	402	398	394	373	361	378	359	375	370	403	399	435	509	545	746	879
Brunei-Malaysia	592	537	558	126	519	504	574	648	712	819	808	788	843	965	1,017	999	1,080
China	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
India	200	1,545	1,545	1,500	2,500	1,545	1,548	1,600	1,600	1,600	1,600	1,600	1,560	1,560	1,560	2,201	2,201
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018	3,162	3,421	3,644	3,823	3,700	4,077	4,341	4,840	4,840	5,378	5,124
Japan	1,725	2,341	1,078	1,084	1,044	1,009	464	448	542	507	388	382	397	370	348	256	284
TOTAL ASIA-PACIFIC(c)	5,200	7,046	6,692	6,479	6,861	7,156	6,645	7,006	7,407	7,684	7,465	7,843	8,184	8,885	8,992	10,381	10,374
Austria	1,268	1,298	1,270	1,250	1,271	1,291	1,222	1,219	1,250	1,254	1,120	1,164	1,229	1,240	1,243	1,605	1,069
Netherlands	369	351	319	319	347	368	392	393	416	473	480	516	533	623	633	644	663
Norway	0	1	4	4	6	24	29	36	50	50	100	117	131	144	171	178	178
United Kingdom	60	55	56	63	57	77	90	135	109	240	290	361	379	387	535	627	661
West Germany	3,065	3,078	2,833	2,782	2,699	2,699	2,827	2,933	2,933	2,945	2,957	3,004	3,077	3,142	3,136	3,152	3,129
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981	6,109	6,266	5,208	5,421	5,401	5,708	5,978	6,228	6,922	7,509	7,643
USSR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL E. EUROPE/USSR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abu Dhabi	94	98	115	142	160	216	209	232	240	250	341	277	352	222	254	254	392
Iran	266	280	313	350	369	425	428	518	551	547	547	530	530	530	530	361	361
Iraq	113	122	132	133	156	156	170	200	250	250	250	280	280	290	290	NA	NA
Kuwait	741	692	692	692	692	692	596	586	586	590	590	546	530	530	530	572	363
Neutral Zone	450	480	440	362	449	449	476	459	455	423	412	450	445	450	464	493	493
Qatar	69	80	84	92	81	88	77	77	95	95	124	128	125	125	174	174	174
Saudi Arabia	423	425	535	627	670	711	701	754	875	725	733	782	555	555	555	NA	NA
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919	3,007	4,161	4,307	4,381	4,193	4,304	4,639	4,643	4,582	3,797	3,875
Algeria	775	497	524	574	826	984	826	801	989	970	1,000	1,050	1,085	1,090	1,090	NA	NA
Egypt	332	204	245	261	437	319	376	401	430	432	484	450	411	500	617	658	666
Gabon	100	101	114	122	137	184	212	240	211	218	242	250	266	270	270	297	500
Libya	1,083	995	763	895	979	851	877	797	817	896	886	889	891	905	905	671	661
Nigeria	364	570	774	898	1,088	1,052	1,259	1,374	1,322	1,457	1,451	1,491	1,312	1,296	1,177	1,153	1,111
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699	3,804	3,956	4,160	4,372	4,522	4,672	4,565	4,860	4,937	3,708	3,838
Mexico	3,127	3,908	3,412	4,345	3,301	3,285	3,382	3,419	4,145	4,200	3,384	3,593	3,605	3,640	NA	3,209	3,737
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718	10,720	1,932	11,909	12,486	5,042	13,610	14,029	11,604	13,512	10,103	10,103
United States	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752	531,395	547,717	557,009	580,142	636,900	615,500	642,000	639,735
Canada	23,675	22,779	20,911	22,996	21,202	18,573	25,055	26,112	25,800	18,323	20,721	33,404	33,907	36,388	39,146	43,480	50,037
TOTAL WESTERN HEMIS.	582,649	569,172	558,947	551,543	548,894	546,866	574,224	555,034	575,695	583,748	594,741	625,056	650,162	708,342	690,169	721,857	727,218
TOTAL WORLD(b)	598,852	586,949	576,226	570,094	568,806	567,621	593,789	576,423	596,777	605,606	616,322	647,583	673,528	732,958	715,602	747,252	752,948

See notes and sources at end of table

Section III
Table 22a

Producing Oil Wells Worldwide
(As of December 31)(a)

COUNTRY	1987	1988	1989	1990
Australia	926	951	1,024	1,607
Brunei-Malaysia	1,056	1,050	1,064	1,087
China	NA	NA	43,700	49,700
India	2,670	1,866	1,944	2,514
Indonesia	6,065	6,470	6,963	7,262
Japan	387	387	368	343
TOTAL ASIA-PACIFIC(c)	12,018	11,654	56,059	63,524
Austria	1,198	987	1,070	1,242
Netherlands	478	289	188	187
Norway	215	223	318	308
United Kingdom	787	755	762	880
West Germany	3,088	2,917	2,883	2,100
TOTAL WESTERN EUROPE	7,199	6,717	6,856	6,425
USSR	NA	NA	145,000	148,900
Yugoslavia	NA	NA	1,671	1,645
TOTAL E. EUROPE/USSR	NA	NA	146,671	150,545
Abu Dhabi	1,001	1,001	1,001	1,001
Iran	361	361	361	361
Iraq	868	820	820	820
Kuwait	363	363	363	363
Neutral Zone	492	501	500	499
Qatar	174	174	174	238
Saudi Arabia	588	588	858	1,235
TOTAL MIDDLE EAST	6,289	6,382	6,827	7,314
Algeria	840	840	840	920
Egypt	821	874	896	907
Gabon	299	312	310	310
Libya	664	678	696	712
Nigeria	1,522	1,513	1,432	1,574
TOTAL AFRICA	5,296	5,411	5,381	5,666
Mexico	3,768	3,768	4,740	4,740
Venezuela	28,101	12,857	12,752	8,425
United States	613,430	612,448	603,365	597,320
Canada	37,882	38,557	38,794	39,159
TOTAL WESTERN HEMIS.	708,710	694,196	688,420	678,302
TOTAL WORLD(b)	739,512	724,360	910,214	911,776

(a) Figures as of July 1 for 1970 through 1986
(b) Total is incomplete because figures for all countries are not available.
NA Not Available

SOURCE: United States: 1970-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1982: World Oil Magazine
1983-1990: Oil and Gas Journal, "Worldwide Report" Issue
Rest of World: 1970-1990: Oil and Gas Journal, "Worldwide Report" Issue.

Historical Number of Wells Drilled in the United States by Type: 1859-1946

Year	Oil	Gas	Dry	Service	Total	Producing Oil Wells at Year-End
1859	1	0	1	0	2	1
1860	201	0	39	0	240	202
1861	190	0	57	0	247	392
1862	322	0	63	0	385	713
1863	488	0	107	0	595	987
1864	951	0	181	0	1,132	1,303
1865	899	0	378	0	1,277	1,611
1866	795	0	347	0	1,142	1,885
1867	789	0	467	0	1,256	2,360
1868	862	0	202	0	1,064	2,946
1869	986	0	696	0	1,682	3,737
1870	1,002	0	637	0	1,639	4,363
1871	1,005	0	447	0	1,452	4,987
1872	768	0	398	0	1,166	5,271
1873	948	0	296	0	1,244	5,607
1874	1,002	0	302	0	1,304	5,958
1875	1,890	0	568	0	2,458	6,973
1876	2,631	0	329	0	2,960	8,960
1877	3,298	0	658	0	3,956	11,551
1878	2,660	0	328	0	2,988	13,536
1879	2,669	0	148	0	2,817	15,521
1880	4,072	0	144	0	4,216	18,634
1881	3,694	0	182	0	3,876	21,168
1882	3,092	0	179	0	3,271	22,258
1883	2,655	84	279	0	3,018	22,365
1884	2,094	1	270	0	2,365	21,083
1885	2,572	4	379	0	2,955	20,753
1886	3,340	0	968	0	4,308	20,963
1887	1,637	0	505	0	2,142	19,425
1888	1,750	45	491	0	2,286	18,453
1889	5,445	133	1,119	0	6,697	21,833
1890	7,342	50	1,439	0	8,831	27,341
1891	4,168	49	990	0	5,207	29,480
1892	3,090	3	785	0	3,878	31,059
1893	3,474	3	799	0	4,276	32,339
1894	6,138	18	1,493	0	7,649	36,841
1895	10,838	8	2,404	0	13,250	45,784
1896	11,219	14	2,784	0	14,017	54,319
1897	7,571	7	2,237	0	9,815	57,591
1898	7,058	16	1,823	0	8,897	61,288
1899	11,630	22	2,701	0	14,353	69,673
1900	13,671	17	3,389	0	17,077	78,745
1901	11,811	10	3,276	0	15,097	85,111
1902	13,019	15	3,440	0	16,474	92,371
1903	15,177	322	3,670	0	19,169	101,182
1904	16,008	449	4,088	0	20,545	110,928
1905	12,601	382	3,583	0	16,566	115,943
1906	14,550	493	3,787	0	18,830	122,590
1907	15,534	555	3,579	0	19,668	133,040
1908	13,210	485	3,214	0	16,909	141,453
1909	13,875	1,048	3,404	0	18,327	146,736

Historical Number of Wells Drilled in the United States by Type: 1859-1946

Year	Oil	Gas	Dry	Service	Total	Producing Oil Wells at Year-End
1910	11,018	1,500	2,422	0	14,940	148,619
1911	9,825	1,580	2,363	0	13,768	150,793
1912	12,514	1,811	2,855	0	17,180	155,046
1913	19,101	2,207	4,282	0	25,590	170,774
1914	16,668	2,327	4,142	0	23,137	180,177
1915	9,154	2,022	2,981	0	14,157	181,317
1916	18,777	1,803	4,039	0	24,619	192,108
1917	16,590	1,966	4,851	0	23,407	199,319
1918	17,845	2,229	5,613	0	25,687	207,815
1919	21,052	2,135	5,986	0	29,173	228,084
1920	24,273	2,274	7,364	0	33,911	268,247
1921	14,666	2,111	5,160	0	21,937	274,500
1922	17,333	2,024	5,332	0	24,689	284,880
1923	16,206	2,367	5,865	0	24,438	290,100
1924	14,587	2,257	5,044	0	21,888	299,100
1925	16,559	2,330	6,734	0	25,623	306,100
1926	19,013	2,341	7,965	0	29,319	318,600
1927	14,442	2,491	7,210	0	24,143	323,300
1928	12,526	2,727	7,078	0	22,331	327,800
1929	15,572	2,870	7,914	0	26,356	328,200
1930	11,640	2,866	6,734	0	21,240	331,070
1931	6,788	1,985	3,659	0	12,432	315,850
1932	10,444	1,027	3,569	0	15,040	321,500
1933	8,068	932	3,312	0	12,312	326,850
1934	12,520	1,368	4,309	0	18,197	333,070
1935	14,663	1,401	4,911	445 (a)	21,420	340,990
1936	17,800	2,070	5,297	723	25,890	349,450
1937	22,386	2,676	6,560	1,453	33,075	363,030
1938	18,598	2,066	6,141	688	27,493	369,640
1939	17,625	2,198	6,474	1,420	27,717	380,390
1940	19,125	2,352	6,617	1,947	30,041	389,010
1941	19,552	3,007	7,128	2,366	32,053	399,960
1942	10,492	2,068	5,504	1,760	19,824	404,840
1943	9,717	1,782	6,385	1,547	19,431	407,170
1944	13,028	3,067	7,009	2,156	25,260	412,220
1945	14,297	2,898	7,471	2,209	26,875	415,750
1946	15,851	3,090	8,047	2,237	29,225	421,460

SOURCE: Wells drilled--Oil and Gas Journal, "Forecast-Review" issues.
Producing wells--Department of Interior, Bureau of Mines, Mineral Industry Surveys.

(a) Not available prior to 1935.

BASIC PETROLEUM DATA BOOK

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Section IV
Table 1

World Crude Oil Production by Area
(Thousands of barrels)

Year	United States(a)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	NA	3,022,139
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	NA	3,433,234
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	NA	3,404,142
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	NA	3,803,027
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	NA	4,282,730
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	NA	4,531,114
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	NA	4,798,055
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	NA	5,016,591
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	NA	5,625,659
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	NA	6,124,676
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,102	166,631	5,617,319	821,125	NA	6,438,444
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,713	169,824	5,676,265	931,485	NA	6,607,750
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,943	193,308	6,074,425	1,058,813	NA	7,133,238
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	NA	7,674,460
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	NA	8,186,213
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	NA	8,881,858
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	NA	9,538,346
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	NA	10,309,644
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	NA	11,062,515
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	NA	12,021,786
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	NA	12,914,340
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	NA	14,146,318
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	NA	15,222,511
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	NA	16,718,708
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	NA	17,662,793
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	NA	18,600,745
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	NA	20,367,981
1974	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	NA	20,537,727
1975	3,052,048	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,169,574	4,328,030	NA	19,497,604
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	NA	21,191,540
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	NA	21,900,695
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	NA	22,158,251
1979	3,121,310	546,040	1,919,535	828,550	7,868,670	2,423,600	1,051,200	17,758,905	5,118,030	NA	22,876,935
1980	3,146,365	521,184	2,035,692	890,965	6,735,498	2,226,378	1,000,278	16,556,360	5,204,520	NA	21,760,880
1981	3,128,624	469,025	2,182,700	955,570	5,749,480	1,672,065	1,027,110	15,184,574	5,192,125	NA	20,376,699
1982	3,156,715	463,550	2,256,065	1,078,210	4.622,360	1,629,725	955 570	14,162,195	5,212,930	NA	19,375,125
1983	3,170,999	494,940	2,203,505	1,236,620	4,215,750	1,609,650	1,024,555	13,956,019	5,254,905	NA	19,210,924
1984	3,249,696	510,426	2,315,682	1,331,874	4,128,114	1,713,978	1,164,978	14,420,748	5,332,620	NA	19,753,368
1985	3,274,553	531,805	2,284,900	1,369,480	3,761,325	1,772,075	1,142,450	14,136,588	5,352,360	NA	19,488,948
1986	3,168,252	537,280	2,190,000	1,395,030	4,639,150	1,819,890	1,176,760	14,926,362	5,402,730	NA	20,329,092
1987	3,047,378	569,400	2,200,220	1,377,875	4,610,315	1,727,910	1,141,720	14,674,818	5,494,345	NA	20,169,163
1988	2,979,123	588,894	2,303,238	1,388,970	5,297,118	1,828,536	1,148,142	15,534,021	5,511,228	NA	21,045,249
1989	2,778,773	567,575	2,335,635	1,314,000	5,846,205	1,974,285	1,186,615	16,003,088	5,380,830	NA	21,383,918

See notes and sources at end of table

World Crude Oil Production by Area
(Thousands of barrels)

Year	United States(a)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1990	2,684,687	565,020	2,487,110	1,399,410	5,992,205	2,176,495	2,258,985	17,563,912	NA	4,150,780	21,714,692

(a) Includes lease condensate
(b) Due to the political changes in the USSR and Eastern Europe the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1947-1958: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, Annual
1959-1972: International Petroleum Annual
1973-1978: U.S. Energy Information Administration, World Crude Oil Production Annual
1979-1990: U.S.--U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annual
Rest of World--Central Intelligence Agency, International Energy Statistical Review

Section IV
Table 2

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1974	Nation	1975	Nation	1976	Nation	1977
1. U.S.S.R.(a)	3,373,650	1. U.S.S.R.(a)	3,608,850	1. U.S.S.R.(a)	3,822,000	1. U.S.S.R.(a)	3,991,050
2. United States(a)	3,202,585	2. United States(a)	3,052,048	2. Saudi Arabia(b)	3,053,887	2. Saudi Arabia(b)	3,290,000
3. Saudi Arabia(b)	2,996,543	3. Saudi Arabia(b)	2,491,834	3. United States(a)	2,976,180	3. United States(a)	3,009,265
4. Iran	2,197,901	4. Iran	1,952,650	4. Iran	2,168,237	4. Iran	2,080,051
5. Venezuela	1,086,332	5. Venezuela	856,364	5. Venezuela	839,737	5. Iraq	909,945
6. Kuwait(b)	830,580	6. Iraq	825,521	6. Iraq	834,810	6. Venezuela	816,818
7. Nigeria	823,347	7. Kuwait(b)	670,918	7. Nigeria	756,064	7. Nigeria	765,473
8. Iraq	720,729	8. Nigeria	651,890	8. Libya	704,011	8. Libya	753,178
9. Canada	616,532	9. United Arab Emirates	618,310	9. Kuwait(b)	700,000	9. United Arab Emirates	729,506
10. United Arab Emirates	616,485	10. China	571,590	10. United Arab Emirates	692,106	10. China	653,350
11. Libya	555,291	11. Libya	551,150	11. China	645,897	11. Kuwait(b)	650,795
12. Indonesia	501,838	12. Canada	520,666	12. Indonesia	550,319	12. Indonesia	615,123
13. China	474,500	13. Indonesia	477,055	13. Canada	488,680	13. Canada	482,021
14. Algeria	368,139	14. Algeria	350,753	14. Algeria	383,816	14. Algeria	409,864
15. Mexico(a)	238,271	15. Mexico	294,254	15. Mexico	327,285	15. Mexico	358,090
16. Qatar	189,348	16. Qatar	159,482	16. Qatar	178,120	16. United Kingdom	271,653
17. Argentina	151,110	17. Australia	149,873	17. Australia	152,522	17. Qatar	162,316
18. Australia	140,396	18. Argentina	144,364	18. Argentina	145,561	18. Argentina	157,248
19. Romania	107,964	19. Oman	124,600	19. Oman	133,795	19. Australia	157,155
20. Oman	106,046	20. Romania	108,739	20. Egypt	120,180	20. Egypt	150,925
TOTAL WORLD	20,537,727	TOTAL WORLD	19,502,335	TOTAL WORLD	21,191,540	TOTAL WORLD	21,900,695

See notes and sources at end of table

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1978	Nation	1979	Nation	1980	Nation	1981
1. U.S.S.R.	4,093,475	1. U.S.S.R.	4,187,280	1. U.S.S.R.	4,282,200	1. U.S.S.R.	4,303,350
2. United States(a)	3,175,927	2. Saudi Arabia(b)	3,376,615	2. Saudi Arabia(b)	3,524,946	2. Saudi Arabia(b)	3,513,125
3. Saudi Arabia(b)	3,113,470	3. United States(a)	3,121,310	3. United States(a)	3,146,365	3. United States(a)	3,128,624
4. Iran	1,900,555	4. Iraq	1,269,105	4. Iraq	920,124	4. Mexico(a)	843,880
5. Iraq	959,585	5. Iran	1,156,320	5. Venezuela	792,390	5. Venezuela	769,420
6. Venezuela	790,418	6. Venezuela	859,940	6. China	775,188	6. China	738,760
7. China	731,825	7. Nigeria	840,230	7. Nigeria	753,228	7. United Kingdom	661,015
8. Libya	727,445	8. Kuwait(b)	807,745	8. Mexico(a)	708,942	8. Indonesia	585,640
9. Nigeria	697,150	9. China	774,530	9. Libya	669,780	9. United Arab Emirates	547,500
10. Kuwait(b)	680,725	10. Libya	763,580	10. United Arab Emirates	622,932	10. Nigeria	527,425
11. United Arab Emirates	668,680	11. United Arab Emirates	668,315	11. Iran	680,292	11. Iran	504,065
12. Indonesia	597,505	12. Indonesia	580,715	12. United Kingdom	592,554	12. Canada(a)	469,025
13. Canada(a)	483,260	13. United Kingdom	572,320	13. Indonesia	576,816	13. Libya	415,005
14. Algeria(a)	447,125	14. Canada(a)	546,040	14. Canada(a)	521,184	14. Iraq	362,445
15. Mexico(a)	440,555	15. Mexico(a)	533,265	15. Kuwait(b)	508,374	15. Kuwait(b)	345,655
16. United Kingdom	394,930	16. Algeria(a)	415,005	16. Algeria(a)	373,320	16. Algeria	293,095
17. Qatar	176,537	17. Neutral Zone	207,320	17. Egypt	217,770	17. Egypt	218,270
18. Neutral Zone	170,090	18. Egypt	191,625	18. Neutral Zone	199,104	18. Norway	182,865
19. Egypt	169,360	19. Brunei-Malaysia	187,975	19. Norway	193,248	19. Argentina	181,040
20. Argentina	165,195	20. Qatar	185,420	20. Brunei-Malaysia	189,588	20. Brunei-Malaysia	156,585
TOTAL WORLD	22,158,251	TOTAL WORLD	22,876,935	TOTAL WORLD	21,760,880	TOTAL WORLD	20,376,699

See notes and sources at end of table

Section IV
Table 2b

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1982	Nation	1983	Nation	1984	Nation	1985
1. U.S.S.R.	4,317,950	1. U.S.S.R.	4,330,360	1. U.S.S.R.	4,344,420	1. U.S.S.R.	4,288,385
2. United States(a)	3,156,715	2. United States(a)	3,170,999	2. United States(a)	3,249,696	2. United States(a)	3,274,553
3. Saudi Arabia(b)	2,309,355	3. Saudi Arabia (b)	1,776,455	3. Saudi Arabia(b)	1,626,504	3. Saudi Arabia(b)	1,200,850
4. Mexico	1,002,290	4. Mexico	973,090	4. Mexico	1,005,036	4. Mexico	997,545
5. Iran	832,930	5. Iran	909,580	5. United Kingdom	927,810	5. United Kingdom	924,545
6. United Kingdom	764,310	6. United Kingdom	839,135	6. China	834,480	6. China	911,040
7. China	745,330	7. China	774,165	7. Iran	800,442	7. Iran	824,170
8. Venezuela	690,945	8. Venezuela	650,065	8. Venezuela	663,558	8. Venezuela	591,665
9. Indonesia	483,260	9. Indonesia	505,525	9. Indonesia	536,556	9. Nigeria	534,360
10. Nigeria	473,770	10. Canada	494,940	10. Canada	516,426	10. Canada	531,805
11. Canada	463,550	11. Nigeria	452,965	11. Nigeria	509,838	11. Iraq	524,505
12. United Arab Emirates	455,520	12. United Arab Emirates	408,435	12. Iraq	440,298	12. Indonesia	450,775
13. Libya	431,795	13. Libya	392,740	13. United Arab Emirates	401,502	13. United Arab Emirates	418,290
14. Iraq	354,780	14. Iraq	336,530	14. Libya	392,718	14. Libya	390,185
15. Algeria	255,865	15. Kuwait(b)	321,565	15. Kuwait(b)	333,792	15. Egypt	319,010
16. Kuwait(b)	241,995	16. Algeria	255,135	16. Egypt	302,682	16. Kuwait(b)	314,630
17. Egypt	242,725	17. Egypt	251,485	17. Norway	256,200	17. Norway	286,525
18. Norway	189,070	18. Norway	224,110	18. Algeria	233,508	18. Algeria	235,425
19. Argentina	176,660	19. Brunei-Malaysia	190,895	19. India	173,248	19. India	224,475
20. Brunei-Malaysia	167,535	20. Argentina	174,835	20. Australia	180,072	20. Brazil	211,700
TOTAL WORLD	19,375,125	TOTAL WORLD	19,210,924	TOTAL WORLD	19,753,368	TOTAL WORLD	19,488,948

See notes and sources at end of table

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1986	Nation	1987	Nation	1988	Nation	1989
1. U.S.S.R.	4,290,210	1. U.S.S.R.	4,354,450	1. U.S.S.R.	4,357,230	1. U.S.S.R.	4,227,065
2. United States(a)	3,168,252	2. United States(a)	3,047,378	2. United States(a)	2,979,123	2. United States(a)	2,778,773
3. Saudi Arabia(b)	1,795,070	3. Saudi Arabia(b)	1,484,455	3. Saudi Arabia(b)	1,876,848	3. Saudi Arabia(b)	1,789,960
4. China	953,745	4. China	978,930	4. China	1,003,572	4. Iran	1,043,170
5. United Kingdom	915,420	5. Mexico	927,465	5. Mexico	953,796	5. Iraq	1,025,285
6. Mexico	887,315	6. Iran	894,615	6. Iraq	951,234	6. China	1,009,225
7. Iran	710,290	7. United Kingdom	853,370	7. Iran	835,944	7. Mexico	953,745
8. Iraq	626,340	8. Iraq	757,740	8. United Kingdom	789,462	8. United Arab Emirates	686,930
9. Venezuela	575,240	9. Venezuela	573,780	9. Venezuela	607,926	9. Venezuela	625,245
10. Canada	537,280	10. Canada	569,400	10. Canada	588,894	10. United Kingdom	598,600
11. Nigeria	533,265	11. United Arab Emirates	530,710	11. United Arab Emirates	551,196	11. Nigeria	598,235
12. Kuwait(b)	490,560	12. Nigeria	469,390	12. Nigeria	504,714	12. Kuwait(b)	584,730
13. United Arab Emirates	485,815	13. Indonesia	434,715	13. Kuwait(b)	459,330	13. Canada	567,575
14. Indonesia	461,360	14. Kuwait(b)	377,410	14. Indonesia	424,194	14. Norway	528,155
15. Libya	415,005	15. Norway	344,195	15. Norway	404,430	15. Indonesia	444,205
16. Norway	306,965	16. Egypt	327,040	16. Libya	385,764	16. Libya	400,040
17. Egypt	296,745	17. Algeria	231,775	17. Egypt	310,368	17. Egypt	310,980
18. Algeria	244,915	18. India	222,285	18. India	232,410	18. Algeria	253,675
19. India	228,125	19. Brazil	206,590	19. Algeria	231,678	19. India	246,740
20. Brazil	209,875	20. Oman	203,305	20. Oman	221,430	20. Oman	223,745
TOTAL WORLD	20,329,092	TOTAL WORLD	20,169,163	TOTAL WORLD	21,045,249	TOTAL WORLD	21,383,918

See notes and sources at end of table

Section IV
Table 2d

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1990
1. U.S.S.R.	4,015,000
2. United States(a)	2,684,687
3. Saudi Arabia(b)	2,294,755
4. Iran	1,122,740
5. China	1,010,685
6. Mexico	930,020
7. Venezuela	767,595
8. United Arab Emirates	752,630
9. Iraq	711,020
10. Nigeria	649,335
11. United Kingdom	617,580
12. Norway	584,730
13. Canada	565,020
14. Libya	492,750
15. Indonesia	455,885
16. Kuwait(b)	391,645
17. Egypt	319,375
18. Algeria	279,225
19. India	243,090
20. Oman	242,360
TOTAL WORLD	21,714,692

(a) Includes lease condensate.
(b) Excluding Neutral Zone production.

SOURCE: 1974-1978: U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-1990: U.S.: Energy Information Administration, Petroleum Supply Annual.
Rest of World: Central Intelligence Agency, International Energy Statistical Review

United States Stripper Wells and Stripper Well Production

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(a) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	382,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.2
1965	398,299	589,016	4.1	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.3	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392,191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7
1981	409,539	426,502	2.9	3,128,624	13.6
1982	416,493	441,951	2.9	3,156,715	14.0
1983	441,501	462,013	2.9	3,159,440	14.6
1984	452,543	463,459	2.8	3,249,696	14.3
1985	458,447	455,884	2.7	3,274,553	13.9
1986	460,426	449,446	2.7	3,168,252	14.2
1987	451,787	446,837	2.7	3,047,378	14.7
1988	454,150	442,800	2.7	2,979,123	14.9

See notes and sources at end of table

United States Stripper Wells and Stripper Well Production

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(a) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1989	452,589	386,916	2.3	2,778,773	13.9
1990	463,854	383,197	2.3	2,684,687	14.3

(a) Includes lease condensate.

SOURCE: Stripper Well data from National Stripper Well Association, National Stripper Well Survey. Total U.S. Crude Oil Production from Energy Information Administration Petroleum Supply Annual

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	187
Arizona	-	-	-	-	-	-	-	-	-	-	-	12	25
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,083	80,275	76,727
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554
Kansas	105,132	110,908	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620
Missouri	55	31	49	32	24	21	39	96	72	65	65	84	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881
Nevada	-	-	-	-	-	-	-	33	64	64	44	40	32
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,893	94,759	98,515	105,692
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970
North Dakota	-	-	-	-	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,880	4,353	4,785	5,478	6,260	5,978
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,851	202,817	215,862	214,661	200,699	198,090
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,170
South Dakota	-	-	-	-	-	-	-	37	30	32	54	58	151
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978
Utah	-	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6
Washington	-	-	-	-	-	-	-	-	-	-	5	4	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184
Wyoming	44,772	55,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050
Total(Mb)	1,857.0	2,020.2	1,841.9	1,973.6	2,247.7	2,289.8	2,357.1	2,315.0	2,484.4	2,617.3	2,616.9	2,449.0	2,574.6
Daily Ave(Mb)	5.1	5.5	5.0	5.4	6.2	6.3	6.5	6.3	6.8	7.2	7.2	6.7	7.1

See notes and sources at end of table

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	7,329	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934
Alaska	559	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893
Arizona	73	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993
Arkansas	30,117	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519
California	305,352	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022
Colorado	47,469	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015
Florida	369	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897
Illinois	77,341	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874
Indiana	12,054	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130
Kansas	113,453	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744
Kentucky	21,147	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702
Louisiana	400,832	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827
Michigan	15,899	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990
Mississippi	51,673	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100
Missouri	75	72	55	53	65	73	97	75	65	67	66	66	60
Montana	30,240	30,906	31,648	30,870	30,647	32,778	35,380	34,959	48,460	43,954	37,879	34,599	33,904
Nebraska	23,825	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106	11,451	10,062	8,705
Nevada	27	154	141	118	255	209	307	279	271	223	149	113	100
New Mexico	107,380	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525
New York	1,813	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256	1,194	1,126	1,018
North Dakota	21,992	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624
Ohio	5,405	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358
Oklahoma	192,913	193,081	202,732	201,962	202,524	203,441	224,839	230,749	223,623	224,729	223,574	213,313	207,633
Pennsylvania	6,009	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441
South Dakota	281	233	169	215	247	219	239	211	187	158	160	233	219
Tennessee	20	17	14	16	10	11	7	7	6	32	309	398	198
Texas	927,479	939,191	943,328	977,835	989,525	1,000,749	1,057,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,686
Utah	37,594	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570
Virginia	2	2	3	3	6	4	1	3	3	1	1	1	-
Washington	1	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,300	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677
Wyoming	133,910	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011
Total(Mb)	2,574.9	2,621.8	2,676.2	2,752.7	2,786.8	2,848.5	3,027.8	3,215.7	3,329.0	3,371.8	3,517.5	3,453.9	3,455.4
Daily Ave(Mb)	7.0	7.2	7.3	7.5	7.6	7.8	8.3	8.8	9.1	9.2	9.6	9.5	9.4

See notes and sources at end of table

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	11,677	13,323	13,477	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746	19,804	21,581
Alaska	72,323	70,603	69,834	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527	630,401	666,233
Arizona	804	740	635	519	427	418	472	406	357	335	237	215	175
Arkansas	18,016	16,527	16,133	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849	18,730	19,044
California	336,075	323,003	322,199	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688	412,020	423,877
Colorado	36,590	37,508	38,089	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050	28,845	30,246
Florida	32,695	36,351	41,877	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476	14,462	11,458
Illinois	30,669	27,553	26,067	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200	28,868	30,265
Indiana	5,312	4,919	4,632	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321	5,526	5,168
Kansas	66,227	61,691	59,106	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594	75,729	75,407
Kentucky	8,687	7,837	7,556	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886	7,777	7,790
Louisiana	831,524	737,324	650,840	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569	515,268	508,239
Michigan	14,614	18,021	24,420	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736	30,554	27,300
Mississippi	56,102	50,779	46,614	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455	32,776	30,641
Missouri	60	56	57	61	60	54	91	130	226	202	269	285	243
Montana	34,620	34,554	32,844	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225	29,761	29,768
Nebraska	7,240	6,611	6,120	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380	6,452	6,943
Nevada	96	129	115	143	661	1,156	1,235	880	700	613	810	1,907	3,039
New Mexico	100,986	98,695	95,063	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169	79,336	78,530
New York	967	896	875	857	824	852	855	824	841	834	831	840	1,071
North Dakota	20,235	19,697	20,452	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690	52,652	50,857
Ohio	8,796	9,088	9,578	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971	15,271	14,988
Oklahoma	191,204	177,785	163,123	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604	168,385	162,739
Pennsylvania	3,282	3,478	3,264	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282	4,284	4,851
South Dakota	275	494	472	447	632	869	846	765	973	1,158	1,172	1,340	1,596
Tennessee	201	769	682	598	820	593	614	743	918	1,132	1,056	920	786
Texas	1,294,671	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676	904,774	888,831
Utah	32,656	39,363	42,301	34,304	33,113	31,368	27,728	24,978	25,860	22,440	29,534	34,689	40,792
Virginia	-	3	3	3	2	2	4	10	13	49	65	32	26
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,385	2,665	2,479	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628	3,524	3,555
Wyoming	141,914	139,997	135,943	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303	124,269	128,514
Total(Mb)	3,360.9	3,202.6	3,056.8	2,976.2	3,009.3	3,178.2	3,121.3	3,146.4	3,128.6	3,156.7	3,171.0	3,249.7	3,274.6
Daily Ave(Mb)	9.2	8.8	8.4	8.1	8.2	8.7	8.6	8.6	8.6	8.6	8.7	8.9	9.0

See notes and sources at end of table

Section IV
Table 4c

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1986	1987	1988	1989	1990
Alabama	21,122	20,607	20,797	19,813	18,536
Alaska	681,310	715,955	738,143	683,980	647,310
Arizona	161	131	113	138	122
Arkansas	15,778	14,230	13,606	11,261	10,387
California	406,665	395,698	386,014	364,249	350,900
Colorado	29,309	28,802	32,352	30,665	30,454
Florida	9,383	8,270	7,746	7,289	5,674
Illinois	27,245	23,980	22,476	20,377	19,954
Indiana	4,759	3,738	3,665	3,310	3,000
Kansas	67,034	59,884	58,824	55,484	55,427
Kentucky	6,475	5,743	5,458	5,414	5,411
Louisiana	512,108	473,989	435,166	402,569	393,706
Michigan	25,688	25,972	23,250	21,566	19,675
Mississippi	29,997	28,103	27,553	27,403	27,033
Missouri	110	110	156	136	146
Montana	27,072	25,059	23,338	20,956	19,810
Nebraska	7,098	6,091	5,978	6,232	5,890
Nevada	2,907	3,112	3,230	3,218	4,012
New Mexico	75,712	72,328	71,235	68,713	67,247
New York	853	710	566	495	416
North Dakota	45,628	41,351	39,343	36,744	36,716
Ohio	13,442	12,153	11,711	10,219	10,008
Oklahoma	149,105	134,378	128,874	117,493	112,274
Pennsylvania	3,783	3,302	2,830	2,702	2,643
South Dakota	1,586	1,644	1,657	1,613	1,648
Tennessee	644	614	601	532	508
Texas	839,606	787,516	764,793	717,821	702,160
Utah	39,172	35,788	33,018	28,416	27,604
Virginia	18	17	25	21	15
Washington	-	--	--	--	--
West Virginia	3,145	2,835	2,621	2,243	2,143
Wyoming	121,337	115,267	113,985	107,713	103,855
Total(Mb)	3,168.3	3,047.4	2,979.1	2,778.8	2,684.7
Daily Ave(Mb)	8.7	8.4	8.2	7.6	7.4

(a) Includes lease condensate.

SOURCE: 1947-1965: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1980-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

United States Stripper Well Production by State
(In Thousands of Barrels)

State	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980(b)	1981	1982
Alabama	–	–	26.2	45.7	87.1	116.7	162.4	139.2	120.7	144.4	124.8	121.9	157.7
Arizona	--	2.6	1.8	0.1	3.7	5.3	5.7	6.7	4.8	4.5	15.8	22.6	23.9
Arkansas	7,719.3	7,238.9	7,281.5	6,658.6	6,747.8	5,043.7	5,198.9	6,171.5	7,753.9	7,231.2	5,689.5	5,465.0	5,131.9
California	51,737.9	58,245.3	65,530.8	61,451.6	77,497.2	60,574.2	52,245.7	51,409.6	49,558.2	45,520.8	44,109.7	54,803.8	55,419.4
Colorado	2,149.5	2,050.3	2,024.1	1,919.6	1,829.5	1,953.4	2,012.5	2,017.0	2,018.1	1,955.0	1,989.2	2,158.7	2,203.7
Illinois	42,860.8	38,304.3	33,128.2	28,826.6	26,023.9	25,214.7	24,936.2	23,614.2	21,159.7	20,324.9	20,166.5	22,238.4	23,989.1
Indiana	7,777.1	6,439.3	6,108.4	5,254.2	4,919.9	4,031.7	4,470.8	5,255.3	4,559.9	4,556.6	4,019.4	4,781.2	4,567.9
Kansas	55,835.4	51,857.1	50,447.9	45,948.7	44,615.0	43,706.7	44,433.0	44,189.8	44,461.1	43,947.6	44,545.1	45,010.4	47,629.1
Kentucky	11,301.0	10,531.0	9,128.0	7,314.0	6,463.9	6,182.8	6,172.8	5,420.8	4,712.7	4,548.8	4,572.5	4,479.2	5,143.6
Louisiana	8,466.8	8,077.8	7,598.8	7,324.7	7,501.8	7,574.2	8,176.0	7,739.5	7,916.1	7,680.7	7,657.3	9,011.5	9,172.0
Michigan	4,754.6	4,731.7	4,826.2	4,863.3	4,883.0	4,760.3	4,601.8	6,233.0	5,601.9	5,620.5	4,717.0	2,448.5	2,820.1
Mississippi	875.4	1,043.0	425.3	438.0	571.5	648.8	1,214.6	1,349.3	1,233.5	1,600.9	1,890.4	3,804.7	2,236.5
Missouri	66.3	66.1	59.3	59.8	56.0	57.0	60.3	59.5	53.3	54.3	127.4	226.2	52.5
Montana	7,454.5	1,919.3	1,910.4	2,143.9	2,024.0	3,578.7	2,947.3	3,255.3	2,804.7	2,829.5	2,710.1	2,748.0	2,881.0
Nebraska	1,056.1	1,191.0	1,121.7	1,196.4	1,378.8	1,545.4	1,758.0	2,012.3	2,024.8	1,865.7	2,236.5	2,510.3	2,878.6
New Mexico	10,201.5	10,187.3	10,074.8	10,223.8	10,835.4	11,082.5	11,141.1	11,547.2	11,830.8	12,067.9	12,924.4	13,462.8	14,207.2
New York	1,193.5	1,096.7	1,018.0	969.0	896.0	875.0	857.0	813.0	852.0	855.0	824.0	849.0	719.0
North Dakota	853.8	936.5	798.1	853.8	933.5	929.7	1,075.1	1,145.9	1,196.5	1,250.2	1,225.1	1,386.1	1,492.5
Ohio	6,904.8	5,800.2	6,550.6	6,157.4	6,361.6	6,704.6	6,996.1	7,251.2	7,808.1	8,366.8	9,049.5	9,485.9	10,199.4
Oklahoma	85,645.2	80,895.8	77,967.1	74,109.9	73,694.7	72,530.6	73,459.3	74,400.4	74,175.4	76,000.5	79,945.0	83,248.7	94,237.0
Pennsylvania	4,015.0	3,798.0	3,441.0	3,282.0	3,399.0	3,199.0	2,950.0	2,659.4	2,564.5	2,816.7	2,650.5	3,606.0	3,717.9
South Dakota	–	27.9	25.8	26.3	21.0	18.0	20.5	14.5	16.5	22.3	24.7	39.3	55.4
Tennessee	11.8	29.9	24.5	44.8	107.8	125.6	140.4	194.1	269.9	387.5	293.4	290.5	N.A
Texas	123,736.6	122,417.4	116,635.7	112,246.9	126,386.9	126,018.3	129,699.8	127,886.4	131,210.9	136,590.2	141,825.2	145,939.8	143,928.7
Utah	90.3	82.7	97.1	132.0	123.5	98.2	261.8	136.4	134.5	180.0	220.3	376.7	N.A
Virginia	0.9	0.6	0.1	0.0	2.8	3.0	2.7	1.7	2.4	3.7	9.5	13.2	49.4
West Virginia	3,124.0	2,969.0	2,677.0	2,407.0	2,673.0	2,478.0	2,400.0	2,384.0	2,255.2	2,381.9	2,312.6	2,607.1	2,683.0
Wyoming	3,455.3	3,382.3	2,996.4	1,785.1	1,897.9	5,107.0	4,790.7	5,224.7	5,333.3	5,597.0	5,210.5	5,366.9	6,354.5
U.S. TOTAL(c)	441,287.2	423,322.1	411,924.8	385,683.5	411,936.0	394,162.9	392,190.5	392,531.9	391,633.1	394,405.1	401,095.2	426,502.4	441,951.0

See notes and sources at end of table

Section IV
Table 5a

United States Stripper Well Production by State
(In Thousands of Barrels)

State	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	172.5	171.8	189.0	190.8	193.3	300.8	1,461.1	1,485.6
Arizona	25.6	29.0	28.1	25.5	30.1	28.9	25.6	26.1
Arkansas	7,117.9	5,653.3	5,285.8	5,113.5	4,888.2	6,687.8	6,575.4	5,693.5
California	55,993.3	57,124.5	41,573.4	37,181.7	37,795.8	38,075.6	37,285.9	36,405.1
Colorado	3,629.8	3,329.6	2,682.3	6,216.4	7,323.4	6,609.6	5,965.8	5,698.4
Illinois	25,889.5	25,983.9	27,718.6	24,157.2	21,682.2	20,025.7	18,407.0	18,520.3
Indiana	4,336.4	4,401.2	4,103.9	3,827.3 (a)	3,657.2 (a)	3,576.0	3,309.4	3,001.9
Kansas	48,267.4	48,664.8	50,861.4	61,434.9	57,802.8	57,051.3	46,189.1	40,872.6
Kentucky	5,521.9	6,630.2	6,696.0	5,514.3	4,881.7	4,564.3	4,396.1	4,337.8
Louisiana	9,000.0	9,844.0	9,000.0	10,059.3	8,809.5	8,242.3	7,429.5	7,154.1
Michigan	3,144.9	3,228.1	3,272.2	2,781.7 (a)	2,674.0	3,891.4 (a)	3,135.6	4,599.4
Mississippi	1,286.2	1,330.2	1,721.3	1,121.0	1,270.0	780.2	707.5	801.5
Missouri	270.8	270.9	250.0	182.3	100.9	146.7	115.2	119.7
Montana	3,103.8	2,577.1	2,936.6	2,709.2	2,650.9	2,563.5	2,447.6	2,448.5
Nebraska	3,418.0	2,974.4	2,947.3	2,617.2	2,687.7	2,446.3	2,110.7	2,011.2
New Mexico	14,722.3	15,016.0	15,366.5	14,747.5	14,377.8	14,653.1	14,309.1	14,295.6
New York	774.3	679.9	600.6	488.9	511.3	485.2	431.5	382.6
North Dakota	1,537.3	1,755.7	1,905.2	1,692.8	1,833.3	1,897.7	1,925.3	2,053.0
Ohio	10,479.8	10,689.8	10,491.3	9,766.6	8,828.8	8,507.8	7,423.9	7,271.0
Oklahoma	94,430.5	94,045.6	91,841.8	95,902.8	109,081.6	109,440.1	81,675.5	78,599.1
Pennsylvania	3,950.5	4,241.7	4,257.4	3,356.1	2,870.1	2,583.2	2,602.0	2,622.1
South Dakota	43.9	82.1	65.3	34.5	57.4	39.5	55.2	63.7
Tennessee	583.7	510.3	450.8	474.6	444.8	488.6	457.1	419.1
Texas	153,688.5	152,719.8	158,738.5	147,986.4	141,704.3	140,503.8	129,894.5	135,849.7
Utah	542.7	1,088.8	1,550.3	877.8	935.4	932.9	926.7	1,034.5
Virginia	21.6	27.2	20.7	14.1	15.9	15.7	21.3	12.0
West Virginia	3,116.5	3,270.0	3,346.0	2,988.0	2,765.2	2,572.1	2,223.5	2,121.6
Wyoming	6,944.0	7,118.8	7,983.4	7,984.0	6,963.2	5,690.3	5,388.4	5,297.1
U.S. TOTAL(c)	462,013.5	463,458.7	455,883.8	449,446.5	446,836.8	442,800.3	386,915.8	383,196.9

(a) Estimate.
(b) Total includes production of 9.4 thousand barrels in Nevada.
(c) Totals may not add due to independent rounding.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association.
National Stripper Well Survey

Oil Volume, Value, and Revenues Received from Onshore Federal and Indian Lands

Year	Federal			Indian		
	Volume (000 bbl)	Market Value (000 $)	Oil Revenues Received (000 $)	Volume (000 bbl)	Market Value (000 $)	Oil Revenues Received (000 $)
1920-1990	7,894,734.0	55,059,994.9	6,905,518.0	1,299,384.6	8,378,140.7	1,191,722.1
1980	149,699.3	3,275,608.5	413,403.2	21,991.8	449,435.0	67,185.9
1981	155,573.7	4,891,778.8	604,783.0	21,944.9	705,243.0	103,919.4
1982	149,612.8	4,273,036.0	524,530.2	19,809.9	611,292.2	92,559.8
1983	151,456.8	4,118,421.3	523,898.7	20,083.2	593,094.9	89,727.6
1984	152,339.4	4,086,190.8	519,046.6	21,801.3	584,887.1	75,973.0
1985	169,968.7	4,117,255.9	492,367.9	20,432.6	519,968.8	75,026.0
1986	157,297.5	2,227,484.7	268,689.6	19,977.9	295,214.3	42,420.4
1987	149,977.5	2,389,418.1	289,069.7	18,989.9	321,775.0	45,813.8
1988	138,989.6	1,887,117.9	230,896.9	16,876.1	247,010.7	36,046.7
1989	132,705.3	2,136,264.9	263,056.7	15,472.4	269,802.0	40,835.9
1990	145,938.3	2,927,745.4	362,642.9	15,317.6	330,457.5	52,207.3

SOURCE: U.S. Minerals Management Service: Mineral Revenues 1990, Report on Receipts from Federal and Indian Leases.

Section IV
Table 7

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1960		1970		1980		1983	
Company	Production	Company	Production		Production	Company	Production
Texaco	477.6	Standard of New Jersey	946.0	Exxon	787.0	Exxon	781.0
Standard of New Jersey	439.0	Texaco	808.0	Standard of Ohio	715.8	Atlantic Richfield	652.8
Gulf	386.2	Gulf	626.0	Atlantic Richfield	555.7	Standard of Ohio	612.0
Shell	354.9	Shell	595.0	Shell	511.0	Shell	524.0
Standard of California	297.8	Standard of California	474.4	Standard of Indiana	464.0	Standard of Indiana	403.0
Standard of Indiana	286.0	Standard of Indiana	466.0	Texaco	413.0	Texaco	346.0
Phillips	222.5	Atlantic Richfield	405.7	Gulf	364.2	Gulf	319.1
Socony-Mobil	204.1	Mobil	385.0	Standard of California	335.0	Standard of California	317.6
Continental	171.0	Getty	317.0	Mobil	318.0	Mobil	304.0
Sinclair	139.0	Union	314.0	Getty	271.0	Phillips	288.0
Cities Service	125.2	Phillips	270.2	Phillips	269.7	Getty	283.8
Sun	114.1	Sun	258.8	Sun	206.1	Sun	204.6
Ohio Oil (Marathon)	104.8	Cities Service	202.7	Union	173.4	Unocal (Union)	170.4
Union	102.9	Continental	188.0	Marathon	168.3	U.S. Steel	157.3
Atlantic Refining	97.7	Marathon	174.9	Cities Service	154.7	Occidental	148.0
Tidewater	89.7	City of Long Beach(a)	163.5	Conoco	148.0	DuPont	116.0
Amerada	80.9	Amerada Hess	95.7	Amerada Hess	88.3	Tenneco	90.4
Superior	79.7	Tenneco	87.0	Tenneco	79.2	Amerada Hess	74.1
Sunray Mid-Continent	71.2	Superior	65.2	City of Long Beach(a)	72.6	City of Long Beach(a)	72.1
Skelly	69.0	Louisiana Land & Exploration	62.0	El Paso	72.3	Union Pacific	63.0
U.S. TOTAL	7,964.0	U.S. TOTAL	11,297.0	U.S. TOTAL	10,170.0	U.S. TOTAL	10,299.0

See notes and sources at end of table

Section IV
Table 7a

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1984		1985		1986		1987	
Company	Production	Company	Production	Company	Production	Company	Production
Exxon	773.0	Exxon	768.0	Exxon	761.0	BP America	851.3
Texaco(b)	674.8	Standard Oil (Ohio)	719.7	Standard Oil	726.6	(Standard Oil)(i)	
Atlantic Richfield	654.7	Atlantic Richfield	647.7	ARCO (Atlantic Richfield)	659.1	Exxon	756.0
Chevron (Standard of		Texaco	640.0	Texaco	590.0	ARCO	665.0
California)(c)	646.1	Chevron	587.1	Shell	571.0	Shell	558.0
Standard of Ohio	634.4	Shell	530.0	Chevron	546.2	Texaco	540.0
Shell	534.0	Amoco (Std. of Ind.)	401.1	Amoco	304.0	Chevron	506.9
Standard of Indiana	409.0	Mobil	352.0	Mobil	342.0	Amoco	394.0
Mobil(d)	365.6	Phillips	346.0	Phillips	316.0	Mobil	338.0
Phillips(e)	347.9	Sun	195.1	USX (U.S. Steel)(g)	189.0	Phillips	287.0
Sun	194.1	Unocal	170.9	Sun	171.3	USX	171.1
U.S. Steel(f)	174.1	U.S. Steel	160.2	Unocal	167.9	Unocal	167.0
Unocal	168.8	Occidental	147.6	Occidental	148.0	Sun	159.3
Occidental	150.0	DuPont	120.0	DuPont	126.0	Occidental	129.0
DuPont	120.0	Tenneco	101.4	Tenneco	104.1	DuPont	107.0
Tenneco	98.6	City of Long Beach(a)	81.7	City of Long Beach(a)	76.9	Tenneco	100.9
City of Long Beach(a)	78.6	Amerada Hess	72.0	Union Pacific	71.2	Burlington Northern	79.8
Amerada Hess	72.7	Union Pacific	67.9	Burlington Northern(h)	71.0	Amerada Hess	68.5
Union Pacific	68.8	El Paso	64.7	Amerada Hess	68.8	City of Long Beach(a)	67.8
El Paso	53.8	Santa Fe	49.9	Enron	50.9	Union Pacific	61.1
Mitchell	50.0					Enron	57.1
U.S. TOTAL	10,554.0	U.S. TOTAL	10,636.0	U.S. TOTAL	10,289.0	U.S. TOTAL	10,008.0

See notes and sources at end of table

Section IV
Table 7b

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1988		1989	
Company	Production	Company	Production
BP America	857.0	BP America	784.0
Exxon	760.0	Exxon	693.0
ARCO	674.2	ARCO	660.0
Shell	527.0	Shell	494.0
Texaco	526.0	Chevron	481.9
Chevron	483.8	Texaco	479.5
Amoco	409.0	Amoco	390.0
Mobil	304.1	Mobil	293.2
Phillips	284.0	Phillips	254.0
Unocal	169.0	Unocal	165.0
Oryx Energy (Sun)(j)	155.0	Oryx Energy	143.8
USX	154.1	USX	143.5
Occidental	144.0	Occidental	135.0
DuPont	105.0	DuPont	112.0
Amerada Hess	68.0	Amerada Hess	71.0
Union Pacific	66.5	Union Pacific	63.8
City of Long Beach(a)	62.9	City of Long Beach(a)	53.9
Enron	56.5	Enron(k)	53.3
Santa Fe Pacific	53.4	Santa Fe Pacific	50.7
Valero Energy	47.0	Valero Energy	43.7
U.S. TOTAL	9,818.0	U.S. TOTAL	9,219.0

See notes and sources at end of table

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

(a) Long Beach, California owns several oil fields and a large percentage of the oil produced from these fields. It has contracts with Arco, Exxon, Mobil, Shell, Texaco, Unocal and others to develop the properties. by Long Beach is not included in the contracted companies' net production figures, the city has been included as a separate incorporated municipality.

(b) Texaco acquired Getty Oil Company on March 1

(c) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984 Standard changed its name to Chevron. Chevron's figure includes Gulf's 1984 full-year production.

(d) Mobil acquired Superior on September 28, 1984. Mobil's figure includes 100% of Superior's estimated annualized production.

(e) Phillips acquired Aminoil from R.J. Reynolds on October 26, 1984. Phillips' figure includes 100% of Aminoil's estimated annualized production.

(f) U.S. Steel acquired the U.S. assets of Husky Oil Ltd. on May 31, 1984. U.S. Steel's figure includes 100% of Husky's estimated annualized production of its U.S. assets.

(g) On February 11, 1986 a subsidiary of U.S. Steel merged with Texas Oil and Gas (TXO). ON July 8, 1986, in recognition of its major diversification into oil and gas businesses, U.S. Steel changed its name to USX Corporation.

(h) On December 13, 1985 Southland Royalty became a wholly owned subsidiary of Burlington Northern Inc. (BNI). BNI also is the parent company of El Paso Natural Gas.

(i) BP America was formed in 1987 through the acquisition of The Standard Oil Company by BP North America Inc.

(j) On November 1, 1988 Oryx Energy Company acquired Sun Company's domestic oil and gas exploration and production business. Oryx's figure includes 153.7 thousand barrels of crude oil, condensate, and NGL produced daily by Sun Company during the first 10 months of 1988.

(k) Enron's figure includes the purchase of CSX Energy Corporation

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R.

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	55.3	47.6	47.2	52.8
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	170.8	138.9	559.2	573.6	555.2
Arizona	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.4	28.7
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1	12.6	12.4	12.6
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3	21.6	21.9	20.7
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1	63.4	56.3	50.7
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104.4	110.5
Illinois	7.1	6.8	6.6	6.2	6.0	5.7	6.1	6.1	7.5	7.4	6.7	6.9	6.6	6.6	6.6	6.9	6.8
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4	5.8	5.8	5.6
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7	7.6	7.0	6.4
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8	2.5	2.5	2.9
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5	47.1	51.1	52.2
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3	12.0	10.9	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5	50.7	56.8	61.3
Missouri	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.4	1.4
Montana	8.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8	24.0	24.7	23.1
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0	38.9	37.6	34.3
Nevada	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	96.6	80.8
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7	20.8	19.1	18.3
New York	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.2	0.3	0.3
North Dakota	--	--	--	--	--	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3	41.4	39.7	37.9
Ohio	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.0	0.9	0.9	0.9	1.1
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9	6.7	6.9	6.8
Pennsylvania	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.4	27.4
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	1.1
Texas	21.1	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3	13.2	13.1	13.5
Utah	--	--	--	--	--	--	--	--	--	--	75.7	182.7	180.1	137.6	114.0	103.3	108.6
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	1.5
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3	50.6	48.1	52.1
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	41.9	45.4	42.0	34.1	12.0	13.4	--	--
TOTAL	12.0	12.8	11.4	11.8	13.1	13.0	13.1	12.6	13.2	13.3	12.8	11.7	12.2	12.0	12.1	12.3	12.7

See notes and sources at end of table

Section IV
Table 8a

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5	62.1	64.8	79.1	85.0	80.3	90.1
Alaska	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4	947.2	897.5	1,935.6	3,805.3	3,765.9	3,853.4
Arizona	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5	65.7	51.6	41.8	36.4	37.0	33.6
Arkansas	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3	6.1	6.7	7.2	7.1	6.5	6.1
California	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4	21.7	21.3	22.3	21.9	22.1	21.9
Colorado	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2	45.1	40.4	36.9	32.1	26.4	23.5
Florida	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8	822.4	849.5	903.1	1,037.7	1,143.6	993.0
Illinois	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1	3.0	3.1	3.0	2.7	2.5	2.5
Indiana	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1	2.8	2.6	2.9	2.5	2.4	2.5
Kansas	6.2	6.1	6.1	5.8	5.6	5.4	5.3	5.0	4.8	44.0	4.1	3.9	3.8	3.7	3.6	3.6	3.6
Kentucky	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5	1.5	1.5	1.3	1.1	1.1	1.1
Louisiana	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3	64.0	61.4	61.5	60.3	54.5	50.5
Michigan	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4	17.0	22.4	23.5	24.4	24.6	21.0
Mississippi	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0	56.9	56.6	47.0	40.0	32.9	26.3
Missouri	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1	1.0	1.0	0.9	0.9	1.2	1.4
Montana	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8	28.3	27.4	27.0	24.8	23.2	22.2
Nebraska	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2	14.5	13.6	12.2	11.3	11.0	10.5
Nevada	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1	42.0	43.4	120.7	186.3	188.0	120.2
New Mexico	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8	19.3	18.2	16.9	14.4	11.2	11.2
New York	0.4	0.4	0.4	1.1	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5	0.4
North Dakota	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3	32.2	33.3	40.2	34.7	34.4	39.6
Ohio	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
Oklahoma	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7	6.2	6.1	5.9	5.5	5.2	5.2
Pennsylvania	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
South Dakota	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7	37.5	30.2	30.9	30.9	25.8	21.9
Tennessee	0.7	0.8	0.6	0.6	0.5	2.6	18.6	15.9	7.2	7.9	19.1	11.5	8.4	9.0	5.5	5.1	5.2
Texas	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7	20.9	20.2	19.2	17.8	16.6	10.5
Utah	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4	96.6	74.7	68.6	62.8	53.3	41.7
Virginia	2.3	1.6	0.7	2.7	1.8	0.5	0.5	0.9	--	--	5.5	1.6	1.2	1.0	1.2	1.8	3.6
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.4
Wyoming	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1	41.1	39.6	37.1	35.3	33.9	29.0
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	12.9	13.3	14.2	15.3	16.2	16.9	18.0	18.1	18.4	18.3	17.6	16.8	16.3	16.4	17.0	16.3	15.9

See notes and sources at end of table

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	81.9	76.3	69.3	71.3	73.0	68.6	64.5	63.7	75.5	58.2
Alaska	2,298.8	2,231.1	2,550.3	2,691.3	1,868.3	1,683.1	1,613.1	1,545.5	1,360.9	1,209.7
Arizona	27.9	25.5	19.1	18.9	17.1	N.A.	15.6	15.4	15.1	13.4
Arkansas	6.1	6.0	6.2	5.4	5.4	4.3	4.6	4.7	3.9	3.9
California	22.4	23.3	23.5	23.2	23.3	25.5	23.8	23.0	23.0	22.2
Colorado	28.5	26.9	17.3	14.7	15.2	14.6	14.3	14.1	13.2	12.6
Florida	814.3	570.8	389.5	286.3	210.7	225.5	185.7	194.2	197.7	187.3
Illinois	2.5	2.8	2.8	2.6	2.7	2.3	2.0	1.9	1.7	1.7
Indiana	2.3	2.5	2.3	2.2	2.0	1.7	1.4	1.3	1.2	1.1
Kansas	4.3	4.2	4.0	4.2	4.0	3.8	3.4	3.4	3.4	3.3
Kentucky	1.2	1.3	1.4	1.1	1.0	0.8	0.7	0.7	0.6	0.7
Louisiana	48.6	56.1	56.2	57.4	53.9	57.0	43.8	44.0	48.5	45.2
Michigan	20.3	19.0	17.7	17.1	14.6	14.4	14.2	13.1	10.6	11.8
Mississippi	29.7	34.3	31.6	35.0	24.2	36.8	35.9	36.7	20.9	34.1
Missouri	1.5	1.1	1.3	1.4	1.1	0.7	1.5	1.5	0.5	0.5
Montana	21.3	19.7	17.1	19.4	19.4	18.9	17.0	15.4	14.3	14.1
Nebraska	9.8	9.4	8.3	8.4	9.1	10.6	9.0	9.0	9.6	11.2
Nevada	NA	NA	NA	140.8	185.0	274.6	243.6	284.7	191.7	239.0
New Mexico	12.0	11.8	11.8	11.9	11.5	11.3	10.8	10.9	10.6	9.9
New York	0.4	0.4	0.4	0.5	0.6	0.5	0.4	0.4	0.3	0.3
North Dakota	48.4	45.6	37.2	42.3	37.7	35.3	32.6	30.6	29.2	28.4
Ohio	1.7	1.6	1.6	1.6	1.5	1.2	1.1	1.1	0.9	0.9
Oklahoma	5.1	4.7	4.5	4.6	4.3	4.1	3.6	3.6	3.3	3.8
Pennsylvania	0.4	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.3	0.3
South Dakota	22.2	24.4	22.9	26.5	26.5	29.4	30.2	30.0	28.3	30.3
Tennessee	5.1	4.8	4.2	3.2	2.7	2.2	2.6	2.3	2.0	1.9
Texas	14.3	13.5	12.6	12.1	11.6	11.4	10.9	10.5	10.5	10.2
Utah	45.9	38.8	49.5	52.7	57.5	57.8	54.9	48.8	34.8	38.4
Virginia	NA	NA	NA	NA	NA	1.5	1.6	2.4	2.9	1.6
Washington	--	--	--	--	--	--	--	--	--	--
West Virginia	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4
Wyoming	30.9	27.5	28.6	29.4	29.2	28.0	28.8	26.3	25.6	25.0
Other	--	36.3	43.6	2.8	2.5	--	--	--	--	--
TOTAL	15.4	14.9	14.4	14.3	13.9	13.9	13.5	13.3	12.5	12.5

(a) Includes lease condensate.

SOURCE: 1947-1974: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement.
1975-1980: U.S. Department of Energy, Energy Information Administration, Annual Petroleum Statements.
1981-1990: Calculated by API based on crude oil production from U.S. Energy Information Administration and number of producing wells from World Oil Magazine.

Section IV
Table 9

Historical World Crude Oil Production by Area:1857-1946
(Thousands of Barrels)

Year	United States	Canada	Latin America(a)	Europe(b)	Middle East	Africa	Asia-Pacific	Rest of World	Total World
1857	0	0	0	2	0	0	0	0	2
1858	0	0	0	4	0	0	0	0	4
1859	2	0	0	5	0	0	0	0	7
1860	500	0	0	8	0	0	0	0	508
1861	2,114	0	0	17	0	0	0	0	2,131
1862	3,057	12	0	23	0	0	0	0	3,092
1863	2,611	83	0	69	0	0	0	0	2,763
1864	2,116	90	0	98	0	0	0	0	2,304
1865	2,498	110	0	108	0	0	0	0	2,716
1866	3,598	175	0	126	0	0	0	0	3,899
1867	3,347	190	0	172	0	0	0	0	3,709
1868	3,646	200	0	144	0	0	0	0	3,990
1869	4,215	220	0	261	0	0	0	0	4,696
1870	5,261	250	0	288	0	0	0	0	5,799
1871	5,205	270	0	255	0	0	0	0	5,730
1872	6,293	308	0	276	0	0	0	0	6,877
1873	9,894	365	0	579	0	0	0	0	10,838
1874	10,927	169	0	837	0	0	0	0	11,933
1875	11,963	220	0	964	0	0	5	0	13,152
1876	9,133	312	0	1,599	0	0	7	0	11,051
1877	13,350	312	0	2,082	0	0	10	0	15,754
1878	15,397	312	0	2,690	0	0	18	0	18,417
1879	19,914	575	0	3,089	0	0	23	0	23,601
1880	26,286	350	0	3,356	0	0	26	0	30,018
1881	27,661	275	0	4,040	0	0	17	0	31,993
1882	30,511	275	0	5,064	0	0	15	0	35,865
1883	23,450	250	0	6,535	0	0	20	0	30,255
1884	24,218	250	0	11,473	0	0	28	0	35,969
1885	21,859	250	0	14,626	0	0	30	0	36,765
1886	28,065	584	0	18,556	0	0	38	0	47,243
1887	28,283	526	0	18,969	0	0	29	0	47,807
1888	27,612	695	0	23,821	0	0	37	0	52,165
1889	35,164	705	0	25,491	0	0	147	0	61,507
1890	45,824	795	0	29,844	0	0	170	0	76,633
1891	54,293	755	0	35,809	0	0	243	0	91,100
1892	50,515	780	0	37,133	0	0	311	0	88,739
1893	48,431	798	0	41,804	0	0	1,005	0	92,038
1894	49,344	829	0	37,976	0	0	1,188	0	89,337
1895	52,892	726	0	48,316	0	0	1,758	0	103,692
1896	60,960	727	47	50,371	0	0	2,094	0	114,199
1897	60,476	710	71	57,376	0	0	3,360	0	121,993
1898	55,364	758	71	64,961	0	0	3,825	0	124,979
1899	57,071	808	89	69,903	0	0	3,276	0	131,147
1900	63,621	913	274	80,126	0	0	4,203	0	149,137
1901	69,389	757	285	90,427	0	0	6,562	20	167,440
1902	88,767	531	327	87,115	0	0	5,043	26	181,809
1903	100,461	487	353	84,053	0	0	9,489	36	194,879
1904	117,081	553	416	88,746	0	0	11,112	40	217,948
1905	134,717	634	624	65,752	0	0	13,334	30	215,091
1906	126,494	569	1,033	71,376	0	0	13,761	30	213,263

See notes and sources at end of table

Historical World Crude Oil Production by Area:1857-1946
(Thousands of Barrels)

Year	United States	Canada	Latin America(a)	Europe(b)	Middle East	Africa	Asia-Pacific	Rest of World	Total World
1907	166,095	789	1,756	79,242	0	0	16,338	30	264,249
1908	178,527	528	4,890	84,111	0	0	17,201	30	285,287
1909	183,171	421	4,200	91,291	0	0	19,606	20	298,709
1910	209,557	316	5,055	93,817	0	0	18,998	20	327,763
1911	220,449	291	14,316	88,903	0	21	20,361	20	344,361
1912	222,935	243	18,794	90,615	0	214	19,622	20	352,443
1913	248,446	228	28,402	85,111	1,857	98	21,183	20	385,345
1914	265,763	215	28,992	87,104	2,910	754	21,786	20	407,544
1915	281,104	215	36,753	86,677	3,616	216	23,442	10	432,033
1916	300,767	198	44,935	82,056	4,477	412	24,630	25	457,500
1917	335,316	214	60,867	73,704	7,147	952	24,662	29	502,891
1918	355,928	305	70,183	42,598	8,623	1,942	23,911	25	503,515
1919	378,367	241	93,358	45,150	10,139	1,522	27,078	20	555,875
1920	442,929	196	164,137	39,181	12,230	1,046	29,145	20	688,884
1921	472,183	188	203,047	43,297	16,673	1,258	29,336	20	766,002
1922	557,531	179	195,487	51,736	22,247	1,197	30,499	22	858,898
1923	732,407	170	166,448	56,374	25,230	1,063	34,020	24	1,015,736
1924	713,940	161	166,340	65,481	32,373	1,133	34,866	24	1,014,318
1925	763,743	332	156,324	76,367	34,038	1,238	35,868	23	1,067,933
1926	770,874	364	157,574	94,974	35,842	1,197	35,961	17	1,096,823
1927	901,129	477	166,943	110,496	40,026	1,275	42,223	13	1,262,582
1928	901,474	624	205,641	122,970	44,174	1,850	48,026	15	1,324,774
1929	1,007,323	1,117	235,455	141,764	42,943	1,888	55,339	38	1,485,867
1930	898,011	1,522	229,024	176,984	46,742	2,012	57,569	40	1,411,904
1931	851,081	1,543	201,218	222,372	45,276	2,045	50,074	47	1,373,656
1932	785,159	1,044	200,555	218,032	50,308	1,901	53,244	55	1,310,298
1933	905,656	1,145	203,143	216,679	55,340	1,670	57,364	3	1,441,000
1934	908,065	1,411	234,673	247,248	65,825	1,552	62,696	4	1,521,474
1935	996,596	1,447	251,071	254,392	85,946	1,305	64,190	4	1,654,951
1936	1,099,687	1,500	262,975	261,058	97,789	1,282	67,245	4	1,791,540
1937	1,279,160	2,944	305,367	257,836	117,467	1,218	75,235	4	2,039,231
1938	1,214,355	6,966	301,464	267,064	119,808	1,608	76,772	4	1,988,041
1939	1,264,962	7,838	327,256	278,897	120,465	4,693	82,045	4	2,086,160
1940	1,353,214	8,591	312,942	284,094	102,691	6,532	81,743	14	2,149,821
1941	1,402,228	10,134	351,438	300,443	74,531	8,573	73,310	0	2,220,657
1942	1,386,645	10,365	255,151	295,536	102,753	8,316	34,334	0	2,093,100
1943	1,505,613	10,052	292,614	269,723	110,900	8,992	58,743	0	2,256,637
1944	1,677,904	10,099	381,747	331,649	147,496	9,452	33,942	0	2,592,289
1945	1,713,655	8,483	450,146	203,888	194,258	9,434	14,833	0	2,594,697
1946	1,733,939	7,586	516,167	214,046	256,369	9,091	8,232	0	2,745,430

(a) Includes Mexico beginning in 1901.
(b) Includes Western Europe plus U.S.S.R.
(c) Totals for Free World and Sino-Soviet Bloc are not available prior to 1947.

SOURCE: U.S. Department of Interior, Bureau of Mines, Mineral Yearbook.

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Colorado	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Oklahoma	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	2	500	2,114	3,057	2,611	2,116	2,498 (a)	3,598 (a)	3,347 (a)	3,646 (a)	4,215 (a)	5,261 (a)	5,205 (a)	6,293 (a)
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other States	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	2	500	2,114	3,057	2,611	2,116	2,498	3,598	3,347	3,646	4,215	5,261	5,205	6,293

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
California	NA	NA	175 (b)	12	13	15	20	40	100	129	143	262
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	NA	NA	NA	161 (c)	5 (c)	4 (c)
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	NA	NA	200 (b)	32	30	38	29	39	34	40	48	90
Oklahoma	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	9,894 (a)	10,927 (a)	8,788 (a)	8,969 (a)	13,135 (a)	15,164 (a)	19,685 (a)	26,028 (a)	27,376 (a)	30,054 (a)	23,128 (a)	23,772 (a)
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	NA	NA	2,800 (b)	120	172	180	180	179	151	128	126	90
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--
Other States	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	9,894	10,927	11,963 (b)	9,133	13,350	15,397	19,914	26,286	27,661	30,511 (d)	23,450	24,218

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
California	325	377	679	690	303	307	324	385	470	706	1,209	1,253
Colorado	--	--	76	298	317	369	665	824	594	516	438	361
Florida	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	1	1	1	1	(e)	(e)	(e)	(e)
Indiana	--	--	--	--	33	64	137	698	2,335	3,689	4,386	4,681
Kansas	--	--	--	--	1	1	1	5	18	40	44	114
Kentucky	5 (c)	5 (c)	5 (c)	5 (c)	5 (c)	6 (c)	9 (c)	7 (c)	3 (c)	2 (c)	2 (c)	2 (c)
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--		--	1,586	1,273	1,033	942	913	1,206
Ohio	662	1,783	5,023	10,011	12,472	16,125	17,740	16,363	16,250	16,792	19,545	23,941
Oklahoma	--	--	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)
Pennsylvania	20,776 (a)	25,798 (a)	22,356 (a)	16,489 (a)	21,487 (a)	28,458 (a)	31,424	27,149	19,283	18,078	18,231	19,379
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)	(e)	1
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	91	102	145	119	544	493	2,406	3,810	8,445	8,578	8,120	10,020
Wyoming	--	--	--	--	0	0	0	0	0	2	4	3
Other States	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
U.S. Total	21,859	28,065	28,283	27,612	35,164	45,824	54,293	50,515	48,431	49,345	52,892	60,960

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--	--
California	1,903	2,257	2,642	4,325	8,787	13,984	24,382	29,649	33,428	33,099	39,748	44,855	55,472
Colorado	385	444	390	317	461	397	484	502	376	328	332	380	311
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	1	(e)	(e)	(e)	(e)	(e)	--	--	181	4,397	24,282	33,686	30,898
Indiana	4,122	3,731	3,848	4,874	5,757	7,481	9,186	11,339	10,964	7,674	5,128	3,284	2,296
Kansas	81	72	70	75	179	332	932	4,251	12,014 (f)	21,718 (f)	2,410	1,802	1,264
Kentucky	(e)	6 (c)	18 (c)	62 (c)	137 (c)	185 (c)	554 (c)	998 (c)	1,217 (c)	1,214 (c)	821 (c)	728	639
Louisiana	--	--	--	--	--	549	918	2,959	8,910	9,077	5,000	5,789	3,060
Michigan	--	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
Montana	--	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--	--
New York	1,279	1,206	1,321	1,302	1,207	1,120	1,164	1,112	1,118	1,243	1,212	1,159	1,135
Ohio	21,561	18,739	21,142	22,363	21,648	21,014	20,480	18,877	16,347	14,788	12,207	10,859	10,633
Oklahoma	1	--	--	6	10	37	139	1,367	(f)	(f)	43,524	45,799	47,859
Pennsylvania	17,983	14,743	13,054	13,258	12,625	12,064	11,355	11,126	10,437	10,257	10,000	9,424	9,299
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--
Texas	66	546	669	836	4,394	18,084	17,956	22,241	28,136	12,568	12,323	11,206	9,534
Utah	--	--	--	--	--	--	--	--	--	--	(g)	(g)	(g)
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	13,090	13,615	13,911	16,196	14,177	13,513	12,899	12,645	11,578	10,121	9,095	9,523	10,745
Wyoming	4	5	6	5	5	6	9	12	8	7	9	18	20
Other States	(e)	(e)	(e)	2	2	1	3	3	3	3	4	15	6
U.S. Total	60,476	55,364	57,071	63,621	69,389	88,767	100,461	117,081	134,717	126,494	166,095	178,527	183,171

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	(g)	10,473	12,712	36,610	46,028	77,398	58,332	40,005
California	73,011	81,134	87,269	97,789	99,775	86,592	90,952	93,878	97,532	101,183	103,377	112,600	138,468	262,876	228,933	232,492	224,673	231,196
Colorado	240	227	206	189	223	208	197	121	143	121	111	108	97	86	445	1,226	2,768	2,831
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	33,143	31,317	28,601	23,894	21,920	19,042	17,714	15,777	13,366	11,960	10,774	10,043	9,383	8,707	8,081	7,863	7,760	6,994
Indiana	2,160	1,695	970	956	1,336	876	769	760	878	972	945	1,158	1,087	1,043	935	829	808	852
Kansas	1,129	1,279	1,593	2,375	3,104	2,823	8,738	36,536	45,451	33,048	39,005	36,456	31,766	28,250	28,836	38,357	41,498	41,069
Kentucky	469	472	484	525	503	437	1,202	3,088	4,368	9,278	8,738	9,013	8,973	8,069	7,407	6,759	6,274	6,719
Louisiana	6,841	10,720	9,263	12,499	14,309	18,192	15,248	11,392	16,043	17,188	35,714	27,103	35,376	24,919	21,124	20,272	23,201	22,818
Michigan	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	--	--	--	--	--	4	94	439
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	(g)	(g)	--	(g)	(g)	(g)	(g)	--	--	(g)	(g)	(g)	(g)	(g)	--	--	--	--
Montana	--	--	--	--	--	--	45	100	69	90	340	1,509	2,449	2,782	2,815	4,091	7,727	5,058
Nebraska	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--		(g)	(g)	(g)	(g)	(g)	98	1,060	1,666	1,226
New York	1,053	954	875	948	939	888	874	880	809	851	906	988	1,000	1,250	1,440	1,695	1,956	2,242
Ohio	9,916	8,817	8,969	8,781	8,536	7,825	7,744	7,751	7,285	7,736	7,400	7,335	6,781	7,085	6,811	7,212	7,272	7,593
Oklahoma	52,029	56,070	51,427	63,579	73,632	97,915	107,072	107,508	103,347	86,911	106,206	114,634	149,571	160,929	173,538	176,768	179,195	277,775
Pennsylvania	8,795	8,248	7,838	7,917	8,170	7,838	7,593	7,733	7,408	8,137	7,438	7,418	7,425	7,609	7,486	8,097	8,961	9,526
Tennessee	--	--	--	--	--	--	1	12	8	15	14	12	10	8	10	24	43	60
Texas	8,899	9,526	11,735	15,009	20,068	24,943	27,645	32,413	38,750	79,366	96,868	106,166	118,684	131,023	134,522	144,648	166,916	217,389
Utah	(g)	(g)	--	--	--	--	--	--	--	--	(g)	--	--	--	(g)	(g)	(g)	(g)
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	11,753	9,795	12,129	11,567	9,680	9,265	8,731	8,379	7,867	8,327	8,249	7,822	7,021	6,358	5,920	5,763	5,946	6,023
Wyoming	115	187	1,572	2,407	3,560	4,246	6,234	8,978	12,596	13,172	16,831	19,333	26,715	44,785	39,498	29,173	25,776	21,307
Other States	4	8	4	11	8	14	8	10	8	12	13	12	13	18	13	12	8	7
U.S. Total	209,557	220,449	222,935	248,446	265,763	281,104	300,767	335,316	355,928	378,367	442,929	472,183	557,531	732,407	713,940	763,743	770,874	901,129

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	32,096	24,917	19,702	14,791	12,051	11,686	11,182	11,008	10,469	11,764	18,180	21,238	25,775	26,327	26,628	27,600
California	231,811	292,534	227,329	188,830	178,128	172,010	174,305	207,832	214,773	238,521	249,749	224,354	223,881	230,263	248,326	284,188
Colorado	2,774	2,358	1,656	1,545	1,136	919	1,139	1,560	1,650	1,605	1,412	1,404	1,626	2,150	2,199	2,320
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4
Illinois	6,462	6,319	5,736	5,039	4,673	4,244	4,479	4,322	4,475	7,499	24,075	94,912	147,647	132,393	106,391	82,260
Indiana	1,052	981	994	840	806	737	838	777	822	844	995	1,711	4,978	7,411	6,743	5,283
Kansas	38,596	42,813	41,638	37,018	34,848	41,976	46,482	54,843	58,317	70,761	60,064	60,703	66,139	83,242	97,636	106,178
Kentucky	7,359	7,775	7,389	6,456	6,287	4,608	4,860	5,258	5,633	5,484	5,821	5,621	5,188	4,762	4,534	7,883
Louisiana	21,847	20,554	23,272	21,804	21,807	25,168	32,869	50,330	80,491	90,924	95,208	93,646	103,584	115,908	115,785	123,592
Michigan	594	4,528	3,911	3,789	6,910	7,942	10,603	15,776	11,928	16,628	18,745	23,462	19,753	16,359	21,754	20,768
Mississippi	--	--	--	--	--	--	--	--	--	--	--	107	4,400	15,327	28,833	18,807
Missouri	--	--	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	40	44	47	36	36
Montana	4,015	3,980	3,349	2,830	2,457	2,273	3,603	4,603	5,868	5,805	4,946	5,960	6,728	7,526	8,074	7,916
Nebraska	--	--	--	--	--	--	--	--	--	--	--	2	276	1,898	1,237	635
New Mexico	943	1,830	10,189	15,227	12,455	14,116	16,864	20,483	27,223	38,854	35,759	37,637	39,129	39,569	31,544	38,896
New York	2,603	3,377	3,647	3,363	3,508	3,181	3,804	4,236	4,663	5,478	5,045	5,098	4,999	5,185	5,421	5,059
Ohio	7,015	6,743	6,486	5,327	4,644	4,235	4,234	4,082	3,847	3,559	3,298	3,156	3,159	3,510	3,543	3,322
Oklahoma	249,857	255,004	216,486	180,574	153,244	182,251	180,107	185,288	206,555	228,839	174,994	159,913	156,164	154,702	140,690	123,152
Pennsylvania	9,956	11,820	12,803	11,892	12,412	12,624	14,478	15,810	17,070	19,189	17,426	17,382	17,353	16,750	17,779	15,757
Tennessee	46	19	21	6	5	5	10	15	(g)	(g)	(g)	50	24	12	9	10
Texas	257,320	296,876	290,457	332,437	312,478	402,609	381,516	392,666	427,411	510,318	475,850	483,528	493,209	505,572	483,097	594,343
Utah	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	11	12	4	3	4	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
West Virginia	5,661	5,574	5,071	4,472	3,876	3,815	4,095	3,902	3,847	3,845	3,684	3,580	3,444	3,433	3,574	3,349
Wyoming	21,461	19,314	17,868	14,834	13,418	11,227	12,556	13,755	14,582	19,166	19,022	21,454	25,711	29,878	32,812	34,253
Other States	6	7	7	7	16	30	41	50	63	66	70					
U.S. Total	901,474	1,007,323	898,011	851,081	785,159	905,656	908,065	996,596	1,099,687	1,279,160	1,214,355	1,264,962	1,353,214	1,402,228	1,386,645	1,505,613

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1944	1945	1946
Alabama	43	181	380
Arkansas	29,418	28,613	28,375
California	311,793	326,482	314,713
Colorado	3,083	5,036	11,856
Florida	12	30	57
Illinois	77,413	75,094	75,297
Indiana	5,118	4,868	6,726
Kansas	98,762	96,415	97,218
Kentucky	9,621	10,325	10,578
Louisiana	129,645	131,051	143,669
Michigan	18,490	17,267	17,074
Mississippi	16,337	19,062	24,298
Missouri	45	45	51
Montana	8,647	8,420	8,825
Nebraska	417	305	293
New Mexico	39,555	37,351	36,814
New York	4,697	4,648	4,863
Ohio	2,937	2,828	2,908
Oklahoma	124,616	139,299	134,794
Pennsylvania	14,118	12,515	12,996
Tennessee	9	8	10
Texas	746,699	754,710	760,215
Utah	--	--	--
Virginia	3	4	23
West Virginia	3,070	2,879	2,929
Wyoming	33,356	36,219	38,977
Other States			
U.S. Total	1,677,904	1,713,655	1,733,939

(a) Includes New York
(b) 1875 total U.S. production includes cumulative California production, 1861-1875; cumulative Ohio and West Virginia production, 1860-1875.
(c) Includes Tennessee.
(d) 1882 total U.S. production includes cumulative Kentuchy production, 1860-1882.
(e) Less than 500 barrels.
(f) In 1905 and 1906, Oklahoma production is included with Kansas
(g) Included in Other States.

SOURCE: U.S. Bureau of Mines, Mineral Industry Surveys.

BASIC PETROLEUM DATA BOOK

SECTION V. FINANCIAL

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Average Hourly Earnings-Total Mining and Manufacturing vs. Petroleum and Natural Gas Extraction and Petroleum Refining (Annual Average)

		Petroleum and Natural Gas Extraction				
Year	Total Mining	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufacturing	Petroleum Refining
1947	1.47	N.A.	1.40	N.A.	1.22	1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	2.39	2.54	2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94
1981	10.06	9.49	10.81	9.11	7.98	12.17
1982	10.82	10.32	11.94	9.78	8.50	13.30
1983	11.30	10.69	12.38	9.97	8.84	14.33
1984	11.58	10.66	12.78	9.89	9.17	14.57
1985	11.95	11.04	13.31	10.13	9.52	15.25

See notes and sources at end of table

Section V
Table 1a

Average Hourly Earnings-Total Mining and Manufacturing vs. Petroleum and Natural Gas Extraction and Petroleum Refining (Annual Average)

		Petroleum and Natural Gas Extraction				
Year	Total Mining	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufac-turing	Petroleum Refining
1986	12.45	11.54	13.74	10.25	9.73	15.32
1987	12.45	11.42	14.04	9.98	9.91	15.72
1988	12.69	11.72	14.44	10.19	10.17	16.20
1989	13.14	12.35	15.28	10.66	10.47	16.62
1990	13.65	12.85	16.22	11.07	10.84	17.58

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 2

Number of Employees
Petroleum and Natural Gas Extraction and Petroleum Refining
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1947	248.5	164.0	NA	189.3	NA	NA	NA	NA	NA	NA
1948	274.0	173.6	NA	196.6	NA	NA	NA	NA	NA	NA
1949	266.3	173.1	NA	191.6	NA	NA	NA	NA	NA	NA
1950	266.1	166.8	NA	185.4	NA	NA	117.6	NA	NA	NA
1951	284.4	169.1	NA	198.6	NA	NA	123.8	NA	NA	NA
1952	303.4	177.2	NA	201.6	NA	NA	128.4	NA	NA	NA
1953	311.4	181.3	NA	206.3	NA	NA	133.2	NA	NA	NA
1954	318.1	184.7	NA	203.6	NA	NA	139.1	NA	NA	NA
1955	331.9	189.0	NA	201.3	NA	NA	140.8	NA	NA	NA
1956	340.1	192.3	NA	200.8	NA	25.9	145.3	NA	NA	NA
1957	344.0	194.5	NA	198.9	NA	26.5	149.0	NA	NA	NA
1958	327.5	192.4	135.0	190.4	NA	25.7	151.9	NA	439.1	NA
1959	329.5	185.4	144.2	181.4	NA	24.3	154.1	NA	449.1	NA
1960	309.2	178.2	131.1	177.2	NA	23.1	154.8	NA	460.7	NA
1961	303.1	171.3	131.8	168.4	NA	22.2	155.6	NA	464.3	NA
1962	298.0	167.6	130.4	160.5	NA	21.6	154.6	NA	480.2	NA
1963	289.2	163.8	125.4	153.7	NA	20.7	153.3	NA	493.2	NA
1964	291.1	160.4	130.7	149.6	NA	20.0	153.3	NA	507.2	NA
1965	287.1	156.6	130.5	148.1	NA	19.5	153.6	NA	521.9	NA
1966	281.8	152.5	129.2	148.2	NA	18.9	153.2	NA	538.4	NA
1967	275.8	149.7	126.2	147.9	NA	18.7	155.9	NA	565.9	NA
1968	275.6	148.1	127.5	150.1	NA	18.5	158.4	NA	585.5	NA
1969	279.9	145.8	134.1	144.7	NA	17.9	159.5	NA	606.4	NA
1970	270.1	144.9	125.2	153.7	NA	17.6	161.2	NA	613.3	NA
1971	264.2	144.8	119.4	152.7	NA	17.3	158.5	NA	619.0	NA
1972	267.9	139.7	124.5	152.3	32.6	16.7	160.7	225.2	648.9	1,504.3
1973	273.9	135.6	134.6	149.9	32.6	16.8	162.7	220.8	651.4	1,508.1
1974	300.2	140.7	155.6	155.4	32.4	17.3	163.2	216.8	590.4	1,475.7
1975	328.8	151.3	173.5	154.2	30.3	17.6	161.9	227.5	622.2	1,542.5
1976	345.7	157.3	184.3	157.1	30.7	17.7	159.3	232.0	625.8	1,568.3
1977	381.4	165.8	211.4	159.5	31.6	18.5	158.8	229.7	628.7	1,608.2
1978	429.3	178.2	246.7	164.1	32.3	19.6	163.5	229.4	628.0	1,666.2
1979	474.2	193.3	276.0	165.2	32.6	20.1	167.1	225.4	576.9	1,661.5
1980	559.7	219.6	333.8	154.8	31.0	21.3	168.0	223.9	560.8	1,719.5
1981	692.1	254.3	430.2	172.8	28.9	21.8	174.0	231.5	562.2	1,883.3
1982	708.3	266.0	434.5	164.2	25.0	21.3	176.9	222.6	559.0	1,877.3
1983	597.8	257.9	333.2	158.2	26.3	20.1	173.5	210.9	556.2	1,743.0
1984	606.5	254.3	345.6	151.1	26.7	19.1	173.2	208.3	574.7	1,759.6
1985	582.9	247.1	329.4	141.4	26.3	18.7	174.8	205.9	588.5	1,738.5

See notes and sources at end of table

Section V
Table 2a

Number of Employees
Petroleum and Natural Gas Extraction and Petroleum Refining
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1986	450.5	218.6	226.2	131.1	26.1	18.2	167.4	200.5	596.0	1,589.8
Jan.	557.8	239.4	312.5	134.1	23.6	18.5	171.6	200.6	582.7	1,688.9
Feb.	535.4	235.5	294.2	133.5	23.3	18.2	170.1	200.1	579.9	1,660.5
Mar.	506.5	232.3	268.1	133.5	24.4	18.0	167.7	200.1	583.9	1,634.1
Apr.	471.3	226.6	239.1	133.1	26.2	18.0	166.2	199.9	587.9	1,602.6
May	444.6	221.1	218.0	132.8	27.4	17.9	166.7	200.9	594.1	1,584.4
Jun.	434.5	220.4	208.6	133.0	27.6	18.5	167.3	201.6	601.0	1,583.5
Jul.	430.5	219.8	205.2	132.5	27.7	18.8	169.9	202.9	604.4	1,586.7
Aug.	417.4	212.9	198.9	131.2	28.0	18.6	169.3	203.1	608.4	1,576.0
Sep.	404.5	205.2	193.7	129.0	27.6	18.2	163.4	201.0	605.0	1,548.7
Oct.	402.9	205.3	192.1	127.7	27.0	18.1	164.4	199.4	600.5	1,540.0
Nov.	401.8	203.7	192.4	127.1	26.1	18.0	166.2	198.2	600.4	1,537.8
Dec.	398.2	200.6	191.7	125.2	23.9	17.9	165.8	197.9	604.3	1,533.2
1987	401.8	199.4	197.0	125.2	26.6	18.8	165.0	197.9	608.0	1,543.3
Jan.	393.7	200.7	187.3	126.0	23.1	17.8	164.7	196.6	603.9	1,525.8
Feb.	388.8	198.9	184.2	125.7	23.3	17.8	164.0	196.4	600.8	1,516.8
Mar.	386.3	198.2	182.4	126.0	24.3	17.9	163.8	195.7	599.8	1,513.8
Apr.	388.6	197.4	185.5	125.4	26.0	18.0	163.8	196.1	601.9	1,519.8
May	392.1	197.6	188.8	125.4	27.7	18.3	164.2	196.5	608.5	1,532.7
Jun.	397.7	199.0	193.1	126.1	28.5	19.0	167.2	197.9	613.6	1,550.0
Jul.	403.2	200.6	197.1	126.1	28.2	19.4	168.0	199.0	616.7	1,560.6
Aug.	407.9	200.2	202.2	125.8	28.5	19.5	167.6	199.4	615.9	1,564.6
Sep.	411.3	199.4	206.5	124.6	28.6	19.4	164.9	198.9	610.3	1,558.0
Oct.	417.6	199.9	212.4	124.2	28.3	19.4	164.2	198.7	607.4	1,559.8
Nov.	417.3	199.7	212.3	123.9	27.1	19.6	163.6	199.6	607.1	1,558.2
Dec.	417.6	200.7	211.6	123.6	25.4	19.9	163.6	200.2	610.6	1,560.9
1988	400.7	196.4	199.4	120.8	27.2	18.5	164.2	203.5	625.9	1,560.8
Jan.	409.1	198.3	205.5	123.4	24.0	19.6	163.2	199.0	608.7	1,547.0
Feb.	404.1	197.5	201.5	121.2	24.0	17.8	162.5	198.8	610.9	1,539.3
Mar.	404.1	197.5	201.6	120.4	24.7	17.9	162.4	199.4	613.4	1,542.3
Apr.	402.3	196.5	200.8	120.0	27.0	18.0	162.8	200.2	617.6	1,547.9
May	404.1	196.4	202.8	121.3	28.1	18.1	163.5	201.8	625.3	1,562.2
Jun.	405.5	197.2	203.4	122.0	29.0	18.8	166.8	203.8	631.5	1,577.4
Jul.	405.9	198.3	202.7	122.2	29.0	19.1	167.7	205.9	636.1	1,585.9
Aug.	404.6	197.6	202.1	121.8	29.0	19.1	167.4	206.4	638.2	1,586.5
Sep.	398.4	194.8	198.7	120.4	29.1	18.5	164.0	206.6	633.5	1,570.5
Oct.	394.5	194.2	195.4	119.5	29.0	18.4	163.7	206.6	632.5	1,564.2
Nov.	389.9	194.4	190.6	119.0	28.0	18.3	163.4	206.2	631.4	1,556.2
Dec.	386.3	194.3	187.2	118.3	25.6	18.4	162.7	207.7	632.0	1,551.0

See notes and sources at end of table

Section V
Table 2b

Number of Employees
Petroleum and Natural Gas Extraction and Petroleum Refining
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1989	381.5	193.0	183.9	117.4	26.8	18.5	163.4	207.4	642.1	1,557.1
Jan.	379.8	194.2	180.9	117.5	23.4	18.4	162.4	207.4	628.9	1,537.8
Feb.	373.9	192.9	176.3	117.3	23.1	18.3	161.7	209.3	628.1	1,531.7
Mar.	374.1	192.8	176.6	116.9	24.0	18.2	161.4	211.1	630.5	1,536.2
Apr.	376.0	192.8	178.5	116.7	26.4	18.1	161.7	210.1	635.5	1,544.5
May	376.3	192.7	178.9	116.7	28.4	18.2	162.7	209.8	641.7	1,553.8
Jun.	380.1	195.6	179.9	118.3	29.2	19.0	165.7	210.1	646.9	1,569.3
Jul.	383.6	195.6	183.3	118.6	29.0	19.1	166.6	208.7	649.9	1,575.5
Aug.	385.1	194.6	185.7	118.6	29.1	19.1	166.4	208.3	649.8	1,576.4
Sep.	385.0	191.9	188.3	117.2	29.0	18.5	163.4	205.4	648.3	1,566.8
Oct.	385.2	190.6	190.0	117.1	28.5	18.4	163.1	204.3	648.9	1,565.5
Nov.	389.4	190.4	194.4	117.0	27.6	18.3	163.0	202.4	647.5	1,565.2
Dec.	389.8	191.5	193.7	116.7	24.3	18.2	162.9	201.5	649.2	1,562.6
1990	394.0	191.5	198.1	117.8	27.0	18.5	164.5	198.3	650.4	1,570.5
Jan.	386.1	191.6	189.9	116.6	22.6	18.0	162.0	199.5	647.8	1,552.6
Feb.	385.0	192.2	188.3	116.6	23.0	18.1	161.6	197.6	643.1	1,545.0
Mar.	382.3	191.8	186.0	116.5	24.4	18.0	162.2	195.8	645.1	1,544.3
Apr.	385.3	191.6	189.3	116.5	26.2	18.1	162.9	196.8	646.2	1,552.0
May.	389.9	192.2	193.4	116.7	28.0	18.2	163.8	197.6	653.2	1,567.4
Jun.	397.1	194.0	198.7	118.6	29.1	19.0	166.5	198.9	657.3	1,586.5
Jul.	400.5	195.2	201.0	119.1	29.3	19.2	167.6	198.9	659.9	1,594.5
Aug.	399.4	193.8	201.5	119.6	29.5	19.2	167.5	199.2	660.0	1,594.4
Sep.	398.2	191.5	202.6	118.2	29.3	18.6	164.9	198.8	654.0	1,582.0
Oct.	399.1	187.8	206.9	118.1	29.1	18.3	164.9	198.5	647.7	1,575.7
Nov.	402.3	187.5	210.4	118.6	27.8	18.4	165.0	199.1	645.0	1,576.2
Dec.	402.2	189.1	208.6	118.9	25.1	18.5	164.9	198.6	645.6	1,573.8
1991	391.7	190.2	196.9	120.2	25.7	18.9	165.2	194.3	636.3	1,552.3
Jan.	397.5	189.4	203.6	118.3	22.3	18.2	164.7	197.8	636.8	1,555.6
Feb.	396.9	189.3	203.1	118.5	22.4	18.2	164.1	195.5	632.8	1,548.4
Mar.	395.6	189.1	202.0	118.7	23.3	18.3	164.0	194.0	632.2	1,546.1
Apr.	394.6	188.8	201.3	119.3	25.3	18.3	163.7	194.3	633.0	1,548.5
May	395.1	190.3	200.3	119.6	26.9	18.6	164.3	194.6	637.4	1,556.5
Jun.	398.3	193.2	200.6	121.8	27.5	19.3	167.6	195.2	644.3	1,574.0
Jul.	398.7	194.3	199.8	122.1	27.6	19.7	168.1	194.6	647.8	1,578.6
Aug.	394.6	193.7	196.2	122.5	27.8	19.5	167.5	194.7	645.8	1,572.4
Sep.	387.0	190.4	191.8	121.1	27.7	19.3	165.2	193.1	637.7	1,551.1
Oct.	384.1	188.6	190.6	120.6	27.4	19.3	164.7	192.9	631.2	1,540.2
Nov.	380.4	187.6	187.8	120.1	26.2	19.3	164.3	192.5	630.1	1,532.9
Dec.	377.8	187.3	185.6	119.4	23.8	19.2	163.6	192.3	626.6	1,522.7

(a) Total employment by establishment--includes production workers, clerical and white collar employees.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 3

Sources of Capital of a Group of Petroleum Companies
(Millions of dollars)

Year	Internal Funds	External Funds	Total Funds
1947	2,221	682	2,903
1948	3,250	592	3,842
1949	2,971	641	3,612
1950	3,285	159	3,444
1951	3,847	316	4,163
1952	4,092	831	4,923
1953	4,591	520	5,111
1954	4,897	353	5,250
1955	5,429	520	5,949
1956	6,351	1,222	7,573
1957	6,536	1,211	7,747
1958	5,806	970	6,776
1959	6,211	241	6,452
1960	6,401	245	6,646
1961	6,892	649	7,541
1962	7,280	677	7,957
1963	7,710	925	8,635
1964	7,905	990	8,895
1965	8,681	1,196	9,877
1966	10,085	2,032	12,117
1967	10,682	2,791	13,473
1968	11,280	4,015	15,295
1969	11,715	2,998	14,713
1970	14,333	4,156	18,489
1971	15,132	5,059	20,191
1972	16,164	4,632	20,796
1973	23,211	4,786	27,997
1974	32,510	6,232	38,742
1975	23,931	10,129	34,060
1976	28,254	10,310	38,564
1977	33,427	8,678	42,105
1978	38,410	4,930	43,340
1979	62,828	8,568	71,396
1980	70,721	11,900	82,621
1981	64,930	16,585	81,515
1982	67,167	15,430	82,597
1983	66,962	8,707	75,669
1984	61,300	26,100	87,400
1985	89,700	23,200	113,000
1986	76,800	16,000	92,700
1987	76,800	14,600	91,400

SOURCE: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Domestic and Foreign Net Income of a Group of Petroleum Companies (Millions of Dollars)

Year	Net Income U.S.	Net Income Foreign	Net Income Total
1960	$1,887	$1,581	$3,468
1961	1,958	1,719	3,677
1962	2,044	1,963	4,007
1963	2,392	2,149	4,541
1964	2,556	2,156	4,712
1965	2,927	2,164	5,091
1966	3,438	2,214	5,652
1967	3,727	2,421	6,148
1968	3,913	2,751	6,664
1969	3,774	2,928	6,702
1970	3,609	3,029	6,638
1971	3,372	3,753	7,125
1972	3,526	3,155	6,681
1973	4,008	7,396	11,404
1974	6,119	9,931	16,050
1975	5,623	5,530	11,153
1976	7,165	5,462	12,627
1977	7,420	6,565	13,985
1978	7,968	6,582	14,550
1979	12,237	18,383	30,620
1980	15,073	19,047	34,120
1981	15,916	12,537	28,453
1982	12,831	8,431	21,262
1983	9,573	10,465	20,038
1984	9,191	10,874	20,065
1985	8,289	10,410	18,699
1986	N.A.	N.A.	15,200
1987	N.A.	N.A.	15,200

SOURCE: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 5

World Petroleum Industry Capital and Exploration Expenditures
United States versus Foreign
(Millions of U.S. dollars)

	Capital Expenditures			Geological & Geophysical Expenses & Lease Rentals			Combined		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1947	2,825	1,225	4,050	250	70	320	3,075	1,295	4,370
1948	3,350	1,600	4,950	300	100	400	3,650	1,700	5,350
1949	3,000	1,925	4,925	325	100	425	3,325	2,025	5,350
1950	2,925	1,500	4,425	300	125	425	3,225	1,625	4,850
1951	3,625	1,700	5,325	400	150	550	4,025	1,850	5,875
1952	4,400	2,350	6,750	500	175	675	4,900	2,525	7,425
1953	5,025	2,550	7,575	575	175	750	5,600	2,725	8,325
1954	5,350	2,725	8,075	600	200	800	5,950	2,925	8,875
1955	5,600	2,950	8,550	625	250	875	6,225	3,200	9,425
1956	6,050	3,975	10,025	700	300	1,000	6,750	4,275	11,025
1957	6,400	5,000	11,400	700	375	1,075	7,100	5,375	12,475
1958	5,300	5,400	10,700	650	400	1,050	5,950	5,800	11,750
1959	5,275	5,775	11,050	650	470	1,120	5,925	6,245	12,170
1960	5,175	5,350	10,525	625	460	1,085	5,800	5,810	11,610
1961	5,100	5,325	10,425	600	420	1,020	5,700	5,745	11,445
1962	5,725	5,385	11,110	575	425	1,000	6,300	5,800	12,100
1963	5,475	5,675	11,150	600	450	1,050	6,075	6,125	12,200
1964	6,100	6,175	12,275	650	480	1,130	6,750	6,655	13,405
1965	6,375	6,800	13,175	610	570	1,180	6,985	7,370	14,355
1966	7,125	7,550	14,675	650	460	1,110	7,775	8,010	15,785
1967	7,650	7,925	15,575	615	575	1,190	8,265	8,500	16,765
1968	8,350	9,550	17,900	715	615	1,330	9,065	10,165	19,230
1969	8,175	10,200	18,375	725	655	1,380	8,900	10,855	19,755
1970	8,225	11,900	20,125	665	675	1,340	8,890	12,575	21,465
1971	7,250	14,550	21,800	715	680	1,395	7,965	15,230	23,195
1972	9,050	15,900	24,950	740	800	1,540	9,790	16,700	26,490
1973	10,640	19,355	29,995	850	850	1,700	11,490	20,205	31,695
1974	16,625	27,075	43,700	1,130	1,055	2.185	17,755	28,130	45,885
1975	17,725	31,900	49,625	1,195	1,130	2,325	18,920	33,030	51,950
1976	22,085	34,640	56,725	1,375	1,160	2,535	23,460	35,800	59,260
1977	22,400	39,180	61,580	1,645	1,750	3,395	24,045	40,930	64,975
1978	24,475	43,900	68,375	1,975	2,060	4,035	26,450	45,960	72,410
1979	32,200	49,425	81,625	2,600	2,725	5,325	34,800	52,150	86,950
1980	42,900	62,625	105,525	3,850	3,775	7,625	46,750	66,400	113,150
1981	63,000	75,600	138,600	5,700	4,900	10,600	68,700	80,500	149,200
1982	63,550	75,875	139,425	4,500	5,100	9,600	68,050	80,975	149,025
1983	45,600	66,175	111,775	4,250	4,175	8,425	49,850	70,350	120,200
1984	45,850	60,925	106,775	4,075	4,300	8,375	49,925	65,225	115,150

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Section V
Table 6

Sources and Uses of Working Capital of a Group of Petroleum Companies
(Million dollars)

	Funds Available From					Funds Used For				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other(a)	Total	Capital Expenditure	Dividends	Long Term Debt Repaid	Other(b)	Total
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,231
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860
1971	14,389	5,059	(c)	743	20,191	12,511	3,836	2,029	972	19,348
1972	14,377	4,632	(c)	1,787	20,796	12,717	3,774	3,258	751	20,500
1973	20,623	4,786	(c)	2,588	27,997	14,247	4,056	4,023	381	22,707
1974	28,165	6,232	(c)	4,345	38,742	22,270	4,681	4,262	894	32,107
1975	22,714	10,129	(c)	1,217	34,060	24,205	4,819	5,316	1,740	36,080
1976	25,828	10,310	(c)	2,426	38,564	26,036	5,208	5,230	829	37,303
1977	29,003	8,678	(c)	4,424	42,105	27,156	5,995	5,954	1,508	40,613
1978	33,184	4,930	(c)	5,226	43,340	28,770	6,781	6,885	1,562	43,998
1979	55,844	8,568	(c)	6,984	71,396	42,229	8,127	8,249	2,473	61,078
1980	64,859	11,900	(c)	5,862	82,621	53,776	10,305	9,728	2,613	76,422
1981	63,207	16,585	(c)	1,723	81,515	63,976	11,068	10,020	4,867	89,931
1982	60,884	14,980	450	6,283	82,597	64,538	11,265	10,485	3,731	90,019
1983	60,256	8,407	300	6,706	75,669	49,521	11,057	7,524	4,507	72,609
1984	57,200	24,900	1,200	4,100	87,400	44,300	10,600	7,000	35,000	96,900
1985	70,200	22,700	500	19,500	113,000	49,800	12,500	27,100	26,800	116,100
1986	54,100	14,800	1,200	22,700	92,700	35,000	13,000	19,000	14,200	81,200
1987	57,800	11,400	3,200	19,000	91,400	36,700	13,100	14,600	25,100	89,800

(a) Other includes sales of assets and other transactions and_ in 1984-85 includes mergers and acquisitions.
(b) Other includes investments and advancements and preferred and common stock retired.
(c) Included in Long Term Debt Issued.

SOURCE: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

Domestic and Foreign Capital Expenditures of the World Petroleum Industry
(Million dollars)

Year	Production		Transportation		Refineries & Chemical Plants		Marketing		Other Capital Expenditures		Total Capital Expenditures	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
1947	1,750	475	295	310	400	225	300	175	80	40	2,825	1,225
1948	2,100	685	310	255	600	405	225	165	115	90	3,350	1,600
1949	2,000	770	250	405	420	475	240	215	90	60	3,000	1,925
1950	2,100	475	215	430	275	375	275	180	60	40	2,925	1,500
1951	2,650	575	285	410	325	400	300	245	65	70	3,625	1,700
1952	3,200	890	385	505	470	490	280	375	65	90	4,400	2,350
1953	3,525	890	425	610	675	620	325	360	75	70	5,025	2,550
1954	3,800	970	325	740	800	585	350	385	75	45	5,350	2,725
1955	4,100	1,110	225	655	835	580	375	535	65	70	5,600	2,950
1956	4,475	1,725	225	775	825	725	450	685	75	65	6,050	3,975
1957	4,525	2,180	345	1,060	950	980	475	710	105	70	6,400	5,000
1958	3,650	1,925	350	1,520	725	1,045	400	745	175	165	5,300	5,400
1959	3,850	2,030	260	1,720	525	1,020	450	885	190	120	5,275	5,775
1960	3,735	1,875	265	1,395	560	1,030	475	950	140	100	5,175	5,350
1961	3,525	1,855	230	1,140	685	1,265	525	930	135	135	5,100	5,325
1962	4,000	1,665	340	1,205	660	1,415	600	985	125	105	5,725	5,375
1963	3,650	1,520	415	1,155	600	1,765	650	1,085	160	150	5,475	5,675
1964	3,960	1,605	340	1,570	675	1,515	850	1,340	275	145	6,100	6,175
1965	3,760	2,025	265	1,510	1,125	1,665	1,000	1,430	225	170	6,375	6,800
1966	3,770	1,870	300	1,755	1,575	2,435	1,100	1,310	380	180	7,125	7,550
1967	4,025	1,975	400	1,740	1,600	2,550	1,250	1,455	375	205	7,650	7,925
1968	4,925	2,535	475	2,280	1,450	2,980	1,150	1,515	350	240	8,350	9,550
1969	4,750	2,790	400	2,600	1,525	2,995	1,250	1,555	250	260	8,175	10,200
1970	4,335	2,895	550	2,915	1,625	3,900	1,450	1,770	265	420	8,225	11,900
1971	3,385	3,830	675	3,435	1,550	4,740	1,350	2,030	290	515	7,250	14,550
1972	5,915	4,190	425	4,580	1,350	4,955	1,100	1,725	260	450	9,050	15,900
1973	7,440	5,485	550	7,230	1,475	4,565	850	1,630	325	445	10,640	19,355
1974	11,450	8,085	1,600	9,760	2,600	7,115	650	1,565	325	550	16,625	27,075
1975	9,380	9,875	3,725	11,510	3,600	8,270	650	1,510	370	735	17,725	31,900
1976	13,460	12,315	3,900	12,350	3,775	7,635	625	1,555	325	785	22,085	34,640
1977	15,180	17,280	2,300	8,060	3,700	10,965	775	1,895	445	980	22,400	39,180
1978	17,650	20,055	1,350	7,380	4,050	13,275	950	2,290	475	900	24,475	43,900
1979	24,600	24,465	1,450	6,575	4,625	14,385	975	2,775	550	1,225	32,200	49,425
1980	33,100	33,775	2,150	7,725	5,650	16,125	1,300	3,750	700	1,250	42,900	62,625
1981	51,700	41,675	1,725	10,300	7,250	18,325	1,425	3,775	900	1,525	63,000	75,600
1982	52,275	43,400	1,300	7,650	7,550	19,525	1,400	3,700	1,025	1,600	63,550	75,875
1983	37,275	36,575	1,000	7,725	5,100	17,075	1,375	3,300	850	1,500	45,600	66,175
1984	38,050	34,650	975	5,925	4,200	15,700	1,900	3,275	725	1,375	45,850	60,925

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry

Section V
Table 8

Estimated U.S. Exploration & Development Expenditures
Chase Manhattan Bank Group and all Other Companies
(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1947	1,950	991	959
1948	2,300	1,318	982
1949	2,215	1,217	998
1950	2,325	1,157	1,168
1951	2,975	1,620	1,355
1952	3,625	1,855	1,770
1953	3,975	2,014	1,961
1954	4,300	2,180	2,120
1955	4,675	2,383	2,292
1956	5,075	2,621	2,454
1957	5,100	2,673	2,427
1958	4,225	2,241	1,984
1959	4,350	2,455	1,895
1960	4,200	2,412	1,788
1961	4,000	2,417	1,583
1962	4,425	2,848	1,577
1963	4,125	2,452	1,673
1964	4,450	2,817	1,633
1965	4,210	2,847	1,363
1966	4,250	2,990	1,260
1967	4,365	3,212	1,153
1968	5,390	4,087	1,303
1969	5,250	3,768	1,482
1970	4,775	3,119	1,656
1971	3,900	2,740	1,160
1972	6,480	4,225	2,255
1973	8,140	5,275	2,865
1974	12,355	8,550	3,805
1975	10,250	7,007	3,243
1976	14,510	8,711	5,799
1977	16,500	10,159	6,341
1978	19,300	11,378	7,922
1979	26,750	20,616	6,134
1980	36,200	25,053	11,147
1981	56,475	32,765	23,710
1982	55,400	30,902	24,498
1983	40,875	25,537	15,338
1984	41,450	23,010	18,440

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

Section V
Table 9

U.S. Estimated Expenditures for Exploration Development and Production, Million Dollars(a)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Exploration Expenditures											
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2	8,678.6	13,545.7	12,935.8	7,045.0
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2,579.5	2,885.4	7,036.5	7,899.2	11,188.2	8,163.3	8,052.0
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5	274.7	376.2	458.0	317.0
Geological and geophysical	399.5	567.6	652.8	692.3	833.3	1,028.7	1,218.2	1,871.0	2,823.0	2,997.5	2,540.0
Lease rental	150.7	177.8	204.7	206.7	245.8	285.3	311.6	429.1	600.4	643.7	586.0
Test Hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0	28.0	34.2	47.2	49.0
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5	757.4	999.0	1,192.0	NA
General and administrative	203.6	290.9	341.7	404.8	413.5	488.8	661.7	892.8	1,107.5	1,420.8	2,491.0
TOTAL EXPLORATION(c)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2	20,830.8	30,674.2	27,858.3	21,080.0
Development Expenditures											
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5	10,193.4	16,107.5	15,578.0	18,340.0
Lease equipment	572.2	824.1	1,499.6	1,486.8	1,607.9	2,175.0	2,146.0	3,572.8	4,760.3	5,134.6	3,698.0
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3	3,414.6	972.6	1,511.5	NA
Improved recovery programs	352.5	625.4	928.9	378.4	461.4	639.3	528.3	941.2	1,458.2	1,943.8	1,062.0
Other, incl. direct overhead	(b)	(b)	(b)	978.9	672.3	467.5	544.3	712.5	801.6	740.2	NA
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2	744.4	915.6	950.7	2,068.0
TOTAL DEVELOPMENT(c)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6	19,578.9	25,015.7	25,858.8	25,168.0
Producing Expenditures											
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,507.4	5,277.9	6,152.2	7,295.3	9,461.9	13,505.1	14,405.3	14,457.0
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4	4,564.9	6,638.6	6,605.8	16,860.0
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1,181.3	1,709.8	2,244.8	3,047.8	NA
Other indirect expenses	193.5	252.1	358.0	369.1	435.6	393.6	538.6	6,508.7	20,557.5 (f)	14,008.3 (f)	4,358.0
TOTAL PRODUCTION(c)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6	22,245.2	42,945.8	38,067.2	35,675.0
TOTAL EXPENDITURES(c)	12,694.2	18,706.1	18,558.7	22,558.7	25,725.1	30,373.2	44,686.4	62,655.0	98,635.7	91,784.3	81,923.0

See notes and sources at end of table

Section V
Table 9a

U.S. Estimated Expenditures for Exploration Development and Production, Million Dollars(a)

	1984	1985	1986	1987	1988	1989	1990(g)
Exploration Expenditures							
Drilling and equipping wells	7,363.0	6,297.0	3,048.0	2,373.0	3,054.0	2,596.0	NA
Acquiring undeveloped acreage	7,807.0	4,040.0	1,335.0	1,685.0	3,053.0	1,759.0	1,713.0
Land dept. leasing and scouting	379.0	381.0	301.0	228.0	232.0	237.0	297.0
Geological and geophysical	2,619.0	2,392.0	1,244.0	1,194.0	1,276.0	955.0	1,046.0
Lease rental	536.0	541.0	383.0	289.0	267.0	263.0	260.0
Test Hole contributions	75.0	16.0	125.0	4.0	7.0	15.0	7.0
Other, incl. direct overhead	NA	NA	NA	NA	NA	NA	NA
General and administrative	(d) 2,719.0	(d) 2,732.0	(d) 2,060.0	(d) 1,826.0	(d) 1,871.0	(d) 1,677.0	(d) 1,394.0
TOTAL EXPLORATION(c)	21,498.0	16,399.0	8,496.0	7,599.0	9,760.0	7,502.0	7,256.0
Development Expenditures							
Drilling and equipping wells	18,693.0	17,411.0	9,257.0	7,362.0	8,002.0	8,279.0	NA
Lease equipment	4,495.0	5,029.0	3,526.0	2,305.0	2,706.0	2,776.0	2,599.0
Acquiring producing acreage	NA	NA	NA	NA	NA	NA	NA
Improved recovery programs	1,239.0	1,822.0	1,140.0	753.0	1,047.0	920.0	974.0
Other, incl. direct overhead	NA	NA	NA	NA	NA	NA	NA
General and administrative	(d) 2,129.0	(d) 2,974.0	(d) 2,457.0	(d) 1,744.0	(d) 2,442.0	(d) 1,875.0	(d) 1,738.0
TOTAL DEVELOPMENT(c)	26,556.0	27,236.0	16,380.0	12,164.0	14,197.0	13,850.0	13,702.0
Producing Expenditures							
Direct operating expenditures	14,829.0	18,233.0	14,720.0	13,592.0	15,131.0	14,904.0	15,473.0
Taxes, excl. income tax	14,895.0	11,426.0	4,317.0	3,941.0	4,040.0	4,258.0	5,035.0
General and administrative	NA	NA	NA	NA	NA	NA	NA
Other indirect expenses	(e) 4,187.0	(e) 4,490.0	(e) 4,488.0	(e) 4,550.0	(e) 4,182.0	(e) 4,580.0	(e) 3,688.0
TOTAL PRODUCTION(c)	33,911.0	34,149.0	23,525.0	22,083.0	23,353.0	23,742.0	24,196.0
TOTAL EXPENDITURES(c)	81,965.0	77,784.0	48,401.0	41,846.0	47,310.0	45,094.0	45,154.0

(a) Data not available prior to 1973
(b) Included in improved recovery programs before 1976
(c) Totals do not add due to rounding
(d) Includes Other, including direct overhead.
(e) Includes general and administrative.
(f) Includes Federal Excise taxes.
(g) Work-in-progress not reflected in 1990 totals.

SOURCE: 1973-1982: U.S. Department of Commerce, Bureau of Census, Annual Survey of Oil and Gas.
1983-1989: American Petroleum Institute, Survey of Oil and Gas Expenditures, Annual.

Environmental Protection Expenditures of the Petroleum Industry within the U.S.(a)
(Millions of Dollars)

Year	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL EXPENDITURES																	
1. Air..............	$125	$167	$187	$231	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$2,184	$2,311	$2,553
2. Water............	146	191	205	224	303	415	379	402	530	629	822	950	884	1001	1299	1786	1705
3. Land and other..	-	-	-	-	60	101	91	100	150	456	336	383	194	203	357	516	551
TOTAL...........	$271	$358	$392	$455	$683	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$3,840	$4,613	$4,809
CAPITAL EXPENDITURES																	
1. Air..............	$69	$100	$112	$145	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$728	$711	$932
2. Water............	79	114	128	136	163	224	184	194	271	356	411	434	340	394	527	804	745
3. Land and other..	-	-	-	-	34	57	51	52	97	396	269	184	89	92	183	273	282
TOTAL...........	$148	$214	$240	$281	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$1,438	$1,788	$1,959
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES																	
1. Air..............	$43	$50	$53	$62	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$1,392	$1,538	$1,554
2. Water............	57	66	75	84	136	185	187	201	249	262	401	502	532	594	754	960	933
3. Land and other..	-	-	-	-	24	41	37	43	50	55	63	197	101	106	165	231	248
TOTAL...........	$100	$116	$128	$146	$268	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$2,311	$2,729	$2,735
RESEARCH AND DEVELOPMENT EXPENDITURES																	
1. Air..............	$13	$17	$22	$24	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$64	$62	$67
2. Water............	10	11	2	4	4	6	8	7	10	11	10	14	12	13	18	22	27
3. Land and other..	-	-	-	-	2	3	3	5	3	5	4	2	4	5	9	12	21
TOTAL...........	$23	$28	$24	$28	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$91	$96	$115

See notes and sources at end of table

Section V
Table 10a

Environmental Protection Expenditures of the Petroleum Industry within the U.S.(a) (Millions of Dollars)

Year	1983	1984
TOTAL EXPENDITURES		
1. Air	$2,014	$1,870
2. Water	1552	1572
3. Land and other	439	504
TOTAL	$4,005	$3,946
CAPITAL EXPENDITURES		
1. Air	$497	$420
2. Water	627	595
3. Land and other	178	211
TOTAL	$1,302	$1,226
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES		
1. Air	$1,457	$1,395
2. Water	901	953
3. Land and other	243	278
TOTAL	$2,601	$2,626
RESEARCH AND DEVELOPMENT EXPENDITURES		
1. Air	$60	$55
2. Water	24	24
3. Land and other	18	15
TOTAL	$102	$94

(a) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

SOURCE: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry

Section V
Table 11

Summary Financial Data for Leading U.S. Oil Companies
(Millions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total Revenue	57,313.5	62,882.9	68,127.1	75,756.7	82,377.0	102,966.5	182,073.9	189,267.0	214,128.3	240,036.2	261,200.9	344,365.7	454,762.4
Deductions:													
Payroll and Benefits	6,070.5	6,593.7	7,074.6	8,041.7	8,646.0	9,206.2	10,607.6	12,416.0	13,294.0	14,729.4	16,705.3	20,040.5	24,653.4
Depreciation Depletion and Amortization	3,906.5	4,178.8	4,570.3	4,899.0	5,169.7	5,729.5	6,675.6	7,537.0	7,540.0	8,581.5	10,101.9	11,773.6	13,937.7
Interest	717.7	931.8	1,076.6	1,195.5	1,276.0	1,390.1	1,601.3	1,638.0	1,926.4	2,645.3	3,058.8	3,439.2	3,655.7
Other Costs and Expenses	32,818.1	36,591.1	39,784.7	43,440.6	47,752.5	59,507.7	121,381.0	128,446.5	152,502.3	170,752.2	184,396.3	246,987.3	328,278.4
Total Taxes	8,304.3	9,070.0	10,335.5	12,373.9	13,800.9	18,168.0	29,249.0	29,911.3	28,029.6	31,983.2	34,718.2	41,561.0	58,388.2
Total Deductions	51,817.1	57,365.4	62,841.7	69,950.7	76,645.1	94,001.5	169,514.6	179,948.8	203,292.7	228,691.6	248,980.5	323,801.6	428,913.4
Net Income	$5,501.8	$5,337.3	$5,482.6	$5,614.5	$5,476.1	$8,992.1	$12,503.4	$9,315.6	$10,853.4	$11,326.1	$12,230.2	$20,573.0	$25,853.6

See notes and sources at end of table

Section V
Table 11a

Summary Financial Data for Leading U.S. Oil Companies
(Millions of Dollars)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Revenue	504,581.8	459,725.3	418,546.9	403,797.8	391,934.1	287,026.6	314,697.9	325,670.4	348,279.9	412,278.2
Deductions:										
Payroll and Benefits	27,061.5	28,391.1	28,227.2	27,648.4	27,106.5	22,747.8	22,324.1	23,164.5	24,297.6	25,856.3
Depreciation Depletion and Amortization	16,714.9	19,080.4	20,753.2	22,555.7	23,877.2	23,961.5	23,074.4	23,769.6	23,456.7	24,653.7
Interest	4,858.7	4,853.5	4,978.0	6,839.9	8,520.4	8,342.8	7,798.9	8,077.4	8,266.8	8,216.6
Other Costs and Expenses	367,294.4	335,199.5	293,709.5	281,233.8	272,289.4	196,647.4	217,583.2	215,346.3	238,914.7	291,166.7
Total Taxes	64,446.5	53,932.9	51,841.0	49,168.3	46,701.0	30,671.9	35,560.2	38,630.5	38,839.3	46,340.4
Total Deductions	480,376.0	441,457.4	399,508.9	387,446.1	378,494.6	282,371.4	306,912.8	308,988.3	333,775.1	396,233.7
Net Income	$24,205.8	$18,303.4	$19,150.6	$16,351.7	$13,680.5	$4,718.8	$7,912.5	$18,770.1	$14,936.8	16677.9

Effective November 1, 1988, the domestic oil and gas exploration and production business of Sun Company was distributed to the common shareholders of the company. As a result of the distribution, Sun and Sun Exploration and Production (renamed Oryx Energy) became separate and independent companies.

The companies included in current sample are:

Amerada Hess Corporation, Amoco Corporation, Ashland Oil Inc., Atlantic Richfield Co., Chevron Corporation, Diamond Shamrock Corp., Exxon Corporation, FINA, Inc., Kerr-McGee Corporation, Maxus Energy, Mobil Corporation, Murphy Oil Corporation, Occidental Petroleum Corp., Oryx Energy, Pennzoil Company, Phillips Petroleum Corp., Shell Oil Company, Sun Company Inc., Texaco, Inc., Unocal Corporation

SOURCE: Financial Trends of Leading U.S. Oil Companies, 1968-1990 API Discussion Paper #017, November 1991

Section V
Table 12

Capital Expenditures of Leading United States Oil Companies
(Billions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total																	
U.S.	6.2	6.2	6.2	5.7	6.2	7.3	12.8	13.6	15.4	16.0	16.0	20.5	27.6	39.4	35.4	28.4	30.3
World	9.6	9.7	9.6	9.7	10.1	12.0	18.9	20.1	21.3	22.5	24.0	30.6	40.7	53.5	49.8	40.2	41.0
Exploration & Production																	
U.S.	3.2	3.0	2.7	2.4	3.2	4.2	7.7	6.5	8.0	8.4	9.1	13.1	17.5	26.3	22.5	18.9	21.7
World	4.8	4.5	3.9	3.7	4.7	6.0	10.7	10.2	11.5	12.7	14.7	19.8	26.1	35.0	32.1	26.7	28.8
Refining Marketing Transportation																	
U.S.	1.9	2.2	2.6	2.6	2.2	2.0	3.2	4.7	4.2	3.0	2.9	3.5	4.3	6.4	6.1	5.1	4.9
World	3.4	4.0	4.6	5.0	4.3	4.8	6.0	7.1	6.1	4.9	4.7	5.9	7.5	9.6	8.8	7.0	6.7
Total Petroleum																	
U.S.	5.1	5.2	5.3	5.0	5.4	6.2	10.9	11.2	12.2	11.4	12.0	16.6	21.8	32.7	28.6	24.0	26.6
World	8.2	8.5	8.5	8.7	9.0	10.8	16.7	17.3	17.6	17.6	19.4	25.7	33.6	44.6	40.9	33.7	35.5
Chemicals																	
U.S.	0.6	0.5	0.5	0.3	0.4	0.4	0.9	1.4	2.1	2.6	2.2	2.0	2.5	2.6	2.0	1.1	1.0
World	0.8	0.6	0.6	0.5	0.5	0.5	1.1	1.6	2.4	2.7	2.3	2.0	2.5	2.6	2.0	1.7	1.4
Petroleum & Chemicals																	
U.S.	5.7	5.7	5.8	5.3	5.8	6.6	11.8	12.6	14.3	14.0	14.2	18.6	24.3	35.3	30.6	25.1	27.6
World	9.0	9.1	9.1	9.2	9.5	11.3	17.8	18.9	20.0	20.3	21.8	28.0	36.5	48.1	43.9	35.4	36.9
Other Energy																	
U.S.	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.6	0.9	0.9	0.9	1.4	1.6	2.3	1.0	1.0
World	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.7	1.0	1.0	1.3	1.9	2.4	3.0	2.1	1.6
Total Energy																	
U.S.	5.9	5.9	6.0	5.5	6.0	6.8	12.3	13.2	14.9	14.9	15.1	19.5	25.7	36.9	32.9	26.1	28.6
World	9.2	9.3	9.3	9.4	9.7	11.5	18.4	19.6	20.7	21.3	22.8	29.3	38.4	50.5	46.9	37.6	38.5
Other																	
U.S.	0.3	0.3	0.2	0.2	0.2	0.5	0.5	0.4	0.5	1.1	0.9	1.0	1.9	2.5	2.5	2.3	1.7
World	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.6	1.2	1.2	1.3	2.3	3.0	2.9	2.7	2.5

See notes and sources at end of table

Section V
Table 12a

Capital Expenditures of Leading United States Oil Companies
(Billions of Dollars)

	1985	1986	1987	1988	1989
Total					
U.S.	28.1	17.6	17.0	24.0	20.5
World	39.4	25.4	25.8	33.9	30.4
Exploration & Production					
U.S.	19.8	10.5	9.6	14.8	10.7
World	27.3	15.5	15.7	21.2	16.6
Refining Marketing Transportation					
U.S.	4.6	3.9	4.1	5.4	5.0
World	6.6	5.4	5.8	7.6	7.5
Total Petroleum					
U.S.	24.4	14.4	13.7	20.2	15.7
World	33.9	20.9	21.5	28.8	24.1
Chemicals					
U.S.	1.3	1.2	1.2	1.9	2.9
World	1.5	1.5	1.6	2.7	3.5
Petroleum & Chemicals					
U.S.	25.7	15.6	14.9	22.1	18.6
World	35.4	22.4	23.1	31.5	27.6
Other Energy					
U.S.	0.6	0.5	0.5	0.5	0.4
World	1.6	1.2	0.9	0.8	1.0
Total Energy					
U.S.	26.3	16.1	15.4	22.6	19.0
World	37.0	23.6	24.0	32.3	28.6
Other					
U.S.	1.8	1.5	1.6	1.4	1.5
World	2.4	1.8	1.8	1.6	1.8

SOURCE: 1968-1979: API, Financial Trends of Leading U.S. Oil Companies 1968-1983, Discussion Paper #017, October 1984.
1980-1987: API, Financial Trends of Leading U.S. Oil Companies 1968-1987, Discussion Paper #017
1988-1989: API, Capital Expenditures of 21 Leading U.S. Oil Companies 1968-1989.

Section V
Table 13

Net Income as a Percent of Stockholders' Equity
Oil and Non-Oil Companies

Year	API-Sample Companies(a)	Non-Petroleum Manufacturing(b)
1968	12.5	14.7
1969	11.4	13.8
1970	10.9	10.0
1971	10.6	11.0
1972	9.9	12.8
1973	15.1	14.5
1974	18.7	13.2
1975	12.8	11.6
1976	13.9	14.0
1977	13.3	14.1
1978	13.3	14.8
1979	20.0	15.1
1980	21.7	12.2
1981	17.8	12.9
1982	12.5	9.7
1983	12.4	12.3
1984	11.0	13.9
1985	10.3	10.7
1986	3.7	11.1
1987	6.2	14.5
1988	14.9	16.4
1989	11.4	14.7
1990	12.6	11.9
Median	12.5	13.2

(a) Net income as a percent of average stockholders' equity
(b) Net income as a percent of average stockholders' equity. Calculations based on Standard & Poor's Compustat data base, All Industrial Aggregate excluding non-manufacturing (e.g. retail) and petroleum industry sectors.
More than 1,500 companies are included in this sample.

Effective November 1, 1988 the domestic oil and gas exploration and production business of Sun Company was distributed to the common shareholders of the company. As a result of the distribution, Sun and Sun Exploration and Production (renamed Oryx Energy) became separate and independent companies. The companies included in current sample are:

Amerada Hess Corporation, Amoco Corp., Ashland Oil, Inc., Atlantic Richfield Co., Chevron Corp., Diamond Shamrock Corp., Exxon Corporation, FINA, Inc. Kerr-McGee Corp., Maxus Energy, Mobil Corp., Murphy Oil Corp., Occidental Petroleum, Oryx Energy, Pennzoil Company, Phillips Petroleum Corp., Shell Oil Company, Sun Company Inc., Texaco Inc., Unocal Corporation

SOURCE: API, Financial Trends of Leading U.S. Oil Companies 1968-1990, Discussion Paper #017R, November 1991.

Section V
Table 14

Windfall Profits Tax
(Millions of Dollars)

Quarter Ending	Tax Before Adjustments	Total Adjustments(a)	Tax After Adjustments
Mar. 1980(b)	788	—	788
June 1980	2,842	-21	2,821
Sept 1980	3,413	-88	3,325
Dec. 1980	3,918	-927	2,991
Mar. 1981	6,953	242	7,195
June 1981	7,253	-107	7,146
Sept 1981	6,344	-251	6,093
Dec. 1981	6,007	-497	5,510
Mar. 1982	5,222	-221	5,001
June 1982	4,283	-295	3,988
Sept 1982	4,404	-445	3,959
Dec. 1982	4,440	-634	3,806
Mar. 1983	3,320	-193	3,127
June 1983	2,951	-203	2,748
Sept 1983	2,822	-300	2,522
Dec. 1983	2,736	-465	2,271
Mar. 1984	2,622	-228	2,394
June 1984	2,468	-218	2,250
Sept 1984	2,447	-200	2,247
Dec. 1984	2,236	-256	1,980
Mar. 1985	1,850	-117	1,733
June 1985	1,653	-132	1,521
Sept 1985	1,442	-146	1,296
Dec. 1985	1,254	-256	998
TOTAL	83,668	-5,958	77,710

(a) Adjustments were made because of errors by withholding agents during previous quarters or more frequently, because of application of the net income limitation.

(b) One month only.

SOURCE: U.S. Treasury Department, Internal Revenue Service, SOI Bulletin.

Section V
Table 15

United States Merchandise Trade Value
(Billions of Dollars)

	Exports (a)			Imports (b)			Trade Balance	
Year	Oil	Total	Oil as % of Total	Oil	Total	Oil as % of Total	Oil	Total
1974	0.792	98.092	0.8	26.073	102.559	25.4	-25.281	-4.467
1975	0.907	107.652	0.8	26.664	98.503	27.1	-25.757	9.149
1976	0.998	115.223	0.9	34.614	123.477	28.0	-33.616	-8.254
1977	1.276	121.232	1.1	44.071	150.390	29.3	-42.795	-29.158
1978	1.561	143.681	1.1	42.188	174.757	24.1	-40.627	-31.076
1979	1.914	181.860	1.1	59.805	209.458	28.6	-57.891	-27.599
1980	2.833	220.626	1.3	78.637	244.871	32.1	-75.804	-24.244
1981	3.696	233.677	1.6	76.659	260.982	29.4	-72.963	-27.305
1982	5.947	212.193	2.8	60.458	243.952	24.8	-54.511	-31.759
1983	4.557	200.486	2.3	53.217	258.048	20.6	-48.660	-57.562
1984	4.470	217.865	2.1	56.924	325.726	17.5	-52.454	-107.861
1985	4.707	213.133	2.2	50.475	345.276	14.6	-45.768	-132.143
1986	3.640	226.808	1.6	35.142	366.063	9.6	-31.502	-139.255
1987	2.837	252.866	1.1	42.285	405.901	10.4	-39.448	-153.035
1988	3.692	321.813	1.1	38.787	441.574	8.8	-35.095	-119.761
1989	4.940	363.812	1.4	49.624	473.211	10.5	-44.684	-109.399
1990	7.646	393.592	1.9	62.160	495.310	12.5	-54.514	-100.997
1991	7.599	421.851	1.8	51.487	488.055	10.5	-43.888	-66.204

(a) Exports are on an f.a.s. (free alongside ship) basis.
(b) Imports are on an f.a.s. basis through 1980. Beginning in 1981, they are on a customs value basis.

SOURCE: U.S. Department of Commerce, Bureau of Census, U.S. Merchandise Trade Report, FT 900

Section V
Table 16

Oil Finding and Development Costs
(Dollars per Barrel)

Year	U.S.	Foreign	Worldwide
1978	6.64	4.15	5.14
1979	11.74	6.66	9.78
1980	10.57	6.17	8.46
1981	11.68	5.59	8.53
1982	9.86	8.66	9.44
1983	9.08	5.25	7.20
1984	6.80	3.94	5.60
1985	9.41	5.34	7.48
1986	6.53	4.57	5.52
1987	4.02	3.25	3.58
1988	5.05	4.40	4.69
1989	4.89	4.31	4.55
1990	4.99	3.97	4.35

SOURCE: PETROLEUM OUTLOOK by John S. Herold,Inc., 5 Edgewood Avenue, Greenwich, Ct. 06830.

Domestic Outlays for Petroleum Property Acquisitions and Exploration and Development Activities
For 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$541	$410	$344	$398	$337	$135	$169	$257	$1,177	$367
Amoco Corp.	2,869	2,327	2,472	2,827	3,407	1,830	1,815	2,648	1,222	1,235
Anadarko Petroleum	246	242	175	162	144	116	103	142	175	152
Atlantic Richfield	2,328	2,856	2,286	2,654	2,771	1,062	676	1,657	1,137	1,291
British Petroleum	NA	2,637	2,263	2,184	2,047	1,316	732	833	791	940
Burlington Resources	207	417	79	215	303	96	95	388	442	775
Chevron Corp.	4,431	3,367	2,467	2,688	1,806	962	911	3,530	970	1,123
Coastal	120	75	33	109	121	52	43	44	68	123
Consolidated Nat. Gas	163	178	218	272	332	166	222	238	341	156
DuPont (Conoco)	444	812	673	805	849	446	437	779	620	677
Enron	256	345	240	362	187	88	87	146	204	266
Enserch	151	141	148	236	254	142	148	136	265	131
Exxon	4,147	4,043	3,463	4,116	4,396	1,947	1,691	1,948	2,055	1,442
Kerr-McGee	270	325	214	186	257	86	75	185	107	180
Louisiana Land	681	479	275	276	236	105	87	134	97	126
Maxus Energy Corp.	524	601	156	188	255	107	113	99	98	123
Mesa	628	497	277	661	113	24	54	841	43	42
Mobil	2,431	3,265	2,267	1,343	1,413	1,054	789	968	850	981
Murphy	230	222	207	158	114	61	70	93	77	79
Occidental	982	219	379	505	416	274	198	292	229	183
Oryx Energy	958	1,034	808	1,394	871	512	593	640	492	418
Pennzoil	401	393	240	287	482	146	150	171	242	249
Phillips	1,619	1,062	1,768	942	607	309	299	292	326	432
Royal Dutch/Shell	2,647	2,405	2,067	3,034	3,206	2,014	1,685	2,258	1,253	1,410
Santa Fe Energy Resources	322	312	229	240	232	170	304	112	119	118
Texaco	3,186	3,247	2,773	2,037	1,797	1,140	1,056	1,119	1,403	1,222
USX	948	900	1,032	1,403	1,066	440	507	460	492	484
Union Pacific	615	518	357	381	384	211	216	361	339	577
Union Texas Petroleum	201	155	171	294	139	98	115	185	124	148
Unocal	1,003	873	606	835	810	483	436	510	511	1,080
TOTAL	$33,549	$34,357	$28,687	$31,192	$29,352	$15,592	$13,876	$21,466	$16,269	$16,530

SOURCE: Salomon Brothers Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

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Table 18

Domestic Outlays for Petroleum Property Acquisitions
For 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$148	$78	$109	$100	$37	$5	$53	$83	$982	$73
Amoco Corp.	298	203	781	718	928	339	356	1,119	112	49
Anadarko Petroleum	64	69	42	40	47	51	40	45	59	39
Atlantic Richfield	318	201	336	428	525	18	49	600	128	151
British Petroleum	NA	833	492	496	224	30	0	64	79	115
Burlington Resources	41	67	14	67	86	25	26	210	223	530
Chevron Corp.	1,281	385	442	281	61	22	42	2,617	25	53
Coastal	35	21	7	69	54	13	17	21	33	63
Consolidated Nat. Gas	39	16	49	48	148	20	60	70	195	30
DuPont (Conoco)	118	135	194	222	140	47	121	361	170	113
Enron	65	66	48	196	61	37	24	72	58	106
Enserch	19	17	31	77	55	17	22	37	187	18
Exxon	1,258	539	808	1,311	445	106	690	305	388	64
Kerr-McGee	58	45	87	34	136	11	30	116	21	75
Louisiana Land	128	61	39	44	41	28	11	19	26	19
Maxus Energy Corp.	126	211	0	35	40	8	15	11	23	26
Mesa	156	89	66	533	24	11	32	808	5	1
Mobil	598	1,087	690	0	93	62	65	194	58	53
Murphy	104	69	89	37	13	21	22	42	13	10
Occidental	171	44	68	45	42	44	24	31	40	14
Oryx Energy	178	129	216	592	153	81	159	152	108	36
Pennzoil	95	96	85	117	308	42	43	46	47	75
Phillips	800	148	1,056	341	25	13	28	10	36	32
Royal Dutch/Shell	627	422	367	1,256	1,277	496	323	862	162	87
Santa Fe Energy Resources	61	62	82	41	47	59	188	13	21	14
Texaco	543	692	865	399	125	59	104	111	516	89
USX	243	121	316	618	161	37	133	33	73	63
Union Pacific	145	92	99	54	54	7	55	45	58	161
Union Texas Petroleum	18	14	37	140	39	20	29	53	17	32
Unocal	192	174	127	274	121	24	38	84	37	467
TOTAL	$7,927	$6,186	$7,642	$8,613	$5,510	$1,753	$2,799	$8,234	$3,900	$2,658

SOURCE: Salomon Brothers Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

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Table 19

Domestic Outlays for Petroleum Exploration for 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$268	$148	$110	$163	$197	$90	$75	$83	$102	$134
Amoco Corp.	1,334	1,191	1,047	1,299	1,359	710	643	673	487	419
Anadarko Petroleum	92	81	62	59	41	27	29	37	51	52
Atlantic Richfield	853	886	849	996	785	341	232	323	384	483
British Petroleum	NA	460	500	592	689	285	256	187	177	209
Burlington Resources	50	132	42	97	71	30	23	46	37	40
Chevron Corp.	1,496	1,371	1,007	997	685	351	294	353	353	382
Coastal	22	34	9	15	20	4	8	7	12	16
Consolidated Nat. Gas	73	103	85	73	64	65	89	87	62	65
DuPont (Conoco)	138	288	251	269	284	177	145	140	157	214
Enron	82	140	106	62	35	17	19	33	35	54
Enserch	41	44	50	66	77	51	40	41	33	47
Exxon	954	932	780	1,032	1,108	491	333	471	345	379
Kerr-McGee	105	192	67	93	95	50	30	36	55	40
Louisiana Land	271	176	124	125	111	42	42	71	41	73
Maxus Energy Corp.	173	170	69	80	92	45	37	42	41	55
Mesa	177	134	102	67	45	7	5	5	9	9
Mobil	996	1,207	798	523	504	282	167	330	236	345
Murphy	91	109	95	81	66	28	35	32	26	49
Occidental	552	106	184	184	150	86	55	65	43	21
Oryx Energy	203	327	173	255	236	166	156	214	156	149
Pennzoil	115	95	59	66	58	22	31	62	56	47
Phillips	404	397	344	317	234	130	128	101	146	150
Royal Dutch/Shell	611	637	631	614	716	458	438	490	392	438
Santa Fe Energy Resources	120	72	47	63	58	29	35	32	33	32
Texaco	1,062	1,240	871	851	603	339	264	352	243	283
USX	304	347	297	291	263	93	122	166	137	150
Union Pacific	147	157	129	166	130	78	74	92	100	151
Union Texas Petroleum	84	76	70	104	56	44	37	80	53	72
Unocal	281	268	198	223	231	127	130	158	180	171
TOTAL	$11,099	$11,520	$8,156	$9,823	$9,063	$4,665	$3,972	$4,809	$4,182	$4,729

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Domestic Outlays for Petroleum Development for 30 Large Energy Companies (In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$125	$184	$125	$135	$103	$40	$41	$91	$93	$160
Amoco Corp.	1,237	933	644	810	1,120	781	816	856	623	767
Anadarko Petroleum	90	92	71	63	56	38	34	60	65	61
Atlantic Richfield	1,157	1,769	1,101	1,230	1,461	703	395	734	625	657
British Petroleum	NA	1,344	1,271	1,096	1,134	1,001	476	582	535	616
Burlington Resources	116	218	23	51	146	41	46	132	182	205
Chevron Corp.	1,654	1,611	1,018	1,410	1,060	589	575	560	592	688
Coastal	63	20	17	25	47	35	18	16	23	44
Consolidated Nat. Gas	51	59	84	151	120	81	73	81	84	61
DuPont (Conoco)	188	389	228	314	425	222	171	278	293	350
Enron	109	139	86	104	91	34	44	41	111	106
Enserch	91	80	67	93	122	74	86	58	45	66
Exxon	1,935	2,572	1,875	1,773	2,843	1,350	668	1,172	1,322	999
Kerr-McGee	107	88	60	59	26	25	15	33	31	65
Louisiana Land	282	242	112	107	84	35	34	44	30	34
Maxus Energy Corp.	225	220	87	73	123	54	61	46	34	42
Mesa	295	274	109	61	44	6	17	28	29	32
Mobil	837	971	779	820	816	710	557	444	556	583
Murphy	35	44	23	40	35	12	13	19	38	20
Occidental	259	69	127	276	224	144	119	196	146	148
Oryx Energy	577	578	419	547	482	265	278	274	228	233
Pennzoil	191	202	96	104	116	82	76	63	139	127
Phillips	415	517	368	284	348	166	143	181	144	250
Royal Dutch/Shell	1,409	1,346	1,069	1,164	1,213	1,060	924	906	699	885
Santa Fe Energy Resources	141	178	100	136	127	82	81	67	65	72
Texaco	1,581	1,315	1,037	787	1,069	742	688	656	644	850
USX	401	432	419	494	642	310	252	261	282	271
Union Pacific	323	269	129	161	200	126	87	224	181	265
Union Texas Petroleum	99	65	64	50	44	34	49	52	54	44
Unocal	530	431	281	338	458	332	268	268	294	442
TOTAL	$14,523	$16,651	$11,889	$12,756	$14,779	$9,174	$7,105	$8,423	$8,187	$9,143

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 21

Worldwide Outlays for Petroleum Property Acquisitions and Exploration and Devel for 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$991	$812	$645	$675	$705	$266	$358	$718	$1,547	$1,668
Amoco Corp.	4,031	3,546	3,482	4,056	4,865	2,723	2,638	6,792	2,540	2,785
Anadarko Petroleum	251	244	177	168	154	120	109	148	180	159
Atlantic Richfield	2,525	3,243	2,812	3,119	3,154	1,475	929	2,800	1,532	1,825
British Petroleum	NA	4,395	3,496	3,350	3,488	2,855	2,297	4,925	3,306	3,827
Burlington Resources	207	417	79	215	303	96	95	388	442	775
Chevron Corp.	5,938	4,955	3,882	3,783	2,642	1,624	1,608	4,331	1,949	2,059
Coastal	120	75	33	109	121	52	43	44	68	123
Consolidated Nat. Gas	163	178	218	272	332	166	222	238	341	156
DuPont (Conoco)	629	1,341	1,175	1,303	1,325	954	1,113	1,561	1,354	1,749
Enron	354	435	276	464	247	102	101	171	233	309
Enserch	154	164	167	246	269	147	151	141	269	137
Exxon	6,824	6,940	5,648	6,536	6,924	3,792	4,614	4,365	6,702	4,119
Kerr-McGee	459	466	312	279	360	149	154	274	327	277
Louisiana Land	803	602	369	354	321	140	137	172	130	173
Maxus Energy Co.	818	1,070	278	436	439	271	194	189	185	309
Mesa	636	509	277	661	113	24	54	841	43	42
Mobil	3,777	4,835	3,550	2,232	2,261	1,800	1,497	1,807	1,722	2,200
Murphy	303	325	318	275	230	104	125	145	135	147
Occidental	1,735	691	737	800	888	583	384	510	522	662
Oryx Energy	958	1,034	808	1,394	871	512	593	640	492	1,679
Pennzoil	424	419	262	330	523	165	174	182	255	264
Phillips	2,251	1,684	2,309	1,258	693	485	497	487	596	777
Royal Dutch/Shell	5,755	5,447	4,485	5,362	6,324	4,242	3,712	4,901	6,103	4,941
Santa Fe Energy Resources	322	312	229	240	232	170	304	112	119	118
Texaco	4,089	4,194	3,570	2,836	2,391	1,703	1,544	1,813	1,787	1,921
USX	1,541	1,372	1,500	1,822	1,588	791	805	712	737	859
Union Pacific	615	518	357	381	384	211	216	361	339	577
Union Texas Petroleum	427	398	366	486	368	206	170	282	243	397
Unocal	1,358	1,411	1,163	1,309	1,245	708	708	882	924	1,514
TOTAL	$48,458	$52,032	$42,980	$44,751	$43,960	$26,636	$25,546	$40,932	$35,122	$36,548

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 22

Domestic Oil and Gas Finding Costs Excluding Property Acquisition Costs(a) for 30 Large Energy Companies
(Dollars Per Barrel of Oil Equivalent)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$5.75	$19.53	$28.78	$11.25	$13.85	$6.05	$3.80	$5.17	$9.44	$4.72
Amoco Corp.	6.77	7.62	4.52	6.30	9.11	NM	3.77	6.65	5.05	5.35
Anadarko Petroleum	23.74	6.29	7.06	5.59	3.40	1.67	4.73	4.93	5.48	4.43
Atlantic Richfield	8.60	5.46	7.28	4.21	NM	3.15	1.38	3.23	3.76	4.37
British Petroleum	NA	NA	9.37	3.62	49.49	NM	1.54	5.87	3.62	2.45
Burlington Resources	8.16	21.88	0.19	6.94	8.19	32.77	5.38	1.13	5.52	3.44
Chevron Corp.	13.56	14.03	7.49	4.56	8.07	13.09	5.16	4.06	4.35	5.12
Coastal	4.81	3.77	1.58	3.33	6.81	26.00	NM	2.56	4.57	2.55
Consolidated Nat. Gas	7.15	14.29	2.82	7.68	4.72	4.66	4.93	6.63	6.39	10.80
DuPont (Conoco)	7.41	6.02	6.22	7.05	9.62	39.90	3.50	3.88	3.03	7.44
Enron	36.97	18.20	12.39	6.51	2.92	1.74	6.30	4.67	3.81	5.78
Enserch	4.63	7.22	5.48	2.42	3.47	3.23	4.64	6.91	2.08	4.95
Exxon	5.96	9.24	4.82	6.15	9.99	6.16	NM	6.08	10.25	4.09
Kerr-McGee	21.93	21.54	14.11	91.20	23.42	NM	6.28	2.44	6.97	7.88
Louisiana Land	13.71	10.90	6.10	11.23	7.36	4.44	11.69	4.83	4.73	5.53
Maxus Energy Corp.	10.47	29.62	17.02	7.46	10.93	3.76	6.32	6.21	8.33	4.81
Mesa	12.10	3.84	10.55	5.82	1.51	NM	1.01	6.00	4.15	1.89
Mobil	5.95	9.56	7.30	6.79	9.55	4.34	3.45	2.49	2.94	4.92
Murphy	12.60	16.39	6.00	10.68	13.47	18.46	4.17	2.94	4.63	4.27
Occidental	19.86	75.00	13.23	5.49	6.43	2.41	2.59	9.73	3.74	3.07
Oryx Energy	9.47	11.01	11.31	8.25	6.39	13.40	9.50	5.59	4.21	4.55
Pennzoil	7.65	3.96	7.38	9.36	6.69	28.36	7.73	3.18	9.44	3.77
Phillips	7.38	7.11	7.75	4.47	14.92	14.32	3.27	2.94	1.97	2.17
Royal Dutch/Shell	8.79	6.58	6.05	6.15	6.40	6.84	4.29	5.82	3.74	5.59
Santa Fe Energy Resources	14.37	12.30	7.23	9.87	8.47	6.59	6.00	1.49	1.66	3.88
Texaco	17.68	20.91	18.03	68.73	12.23	9.41	4.18	2.83	3.53	3.39
USX	10.96	11.05	9.40	7.52	5.20	4.62	6.23	9.60	8.16	6.79
Union Pacific	5.34	8.81	6.62	7.55	7.95	NM	NM	4.80	4.84	6.86
Union Texas Petroleum	12.34	35.25	12.56	10.87	5.13	8.67	5.49	6.14	6.17	4.90
Unocal	10.86	9.73	5.04	6.79	7.57	8.01	4.89	7.04	5.07	5.40
TOTAL	$8.84	$11.07	$6.30	$5.97	$16.90	$13.49	$6.11	$4.31	$4.32	$4.35

NM = Not meaningful
Finding Costs = Outlays for Petroleum Exploration and Development/Reserves Additions from Extensions and Discoveries, improved recovery and revisions

(a) This table reflects oil and gas finding costs excluding property acquisition costs, which gives a more accurate assessment of true finding costs.

SOURCE: Salomon Brothers, Inc., Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 23

Worldwide Oil and Gas Finding Costs Excluding Property Acquisition Costs(a) for 30 Large Energy Companies
(Dollars Per Barrel of Oil Equivalent)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$8.50	$34.86	$16.85	$18.39	$10.48	$3.15	$2.75	$2.70	$10.60	$6.58
Amoco Corp.	5.20	7.80	5.72	7.23	6.96	34.13	3.97	7.94	6.13	4.79
Anadarko Petroleum	22.32	6.18	7.04	5.11	3.43	1.71	4.29	4.00	5.54	4.56
Atlantic Richfield	8.61	4.99	6.64	4.78	NM	3.76	1.79	4.19	5.15	3.86
British Petroleum	NA	NM	6.26	2.66	6.20	NM	2.46	11.03	11.92	5.71
Burlington Resources	8.16	21.88	0.19	6.94	8.19	32.77	5.38	1.13	5.52	3.44
Chevron Corp.	10.70	8.96	5.64	5.58	5.76	12.06	4.92	4.20	5.28	4.76
Coastal	4.81	3.77	1.58	3.33	6.81	26.00	NM	2.56	4.57	2.55
Consolidated Nat. Gas	7.15	14.29	2.82	7.68	4.72	4.66	4.93	6.63	6.39	10.80
DuPont (Conoco)	8.69	8.66	5.60	5.03	6.81	NM	3.79	5.27	4.89	9.46
Enron	14.92	13.19	7.09	8.35	NM	2.07	6.17	4.36	3.83	5.88
Enserch	4.58	7.93	6.04	2.57	3.67	3.45	4.82	6.65	2.19	5.17
Exxon	10.22	5.79	3.97	5.53	6.24	6.32	NM	5.09	5.22	8.93
Kerr-McGee	38.10	30.80	7.67	NM	16.69	NM	16.17	4.67	4.18	3.79
Louisiana Land	16.37	12.34	7.53	7.42	12.78	6.05	7.00	4.70	6.31	3.28
Maxus Energy Corp.	10.18	21.22	7.69	5.71	11.08	4.82	4.81	1.69	2.89	17.50
Mesa	11.95	3.91	10.13	5.30	1.53	NM	1.01	6.00	4.15	1.89
Mobil	2.70	18.98	4.87	6.24	10.49	3.31	3.76	2.58	2.86	3.57
Murphy	8.89	7.93	7.93	9.82	11.94	NM	3.61	7.87	4.55	5.95
Occidental	18.94	12.50	7.19	2.67	3.90	2.22	2.07	3.96	3.19	6.75
Oryx Energy	9.47	11.01	11.31	8.25	6.39	13.40	9.50	5.59	4.21	4.43
Pennzoil	7.81	4.22	7.98	11.14	7.20	22.23	8.56	3.33	10.80	4.16
Phillips	14.07	8.83	6.14	5.49	27.49	2.20	2.44	1.91	2.61	2.12
Royal Dutch/Shell	7.87	11.24	4.30	3.39	8.63	4.92	2.38	3.28	3.15	0.86
Santa Fe Energy Resources	14.37	12.30	7.23	9.87	8.47	6.59	6.00	1.49	1.66	3.88
Texaco	8.28	22.79	12.35	21.36	8.63	6.56	3.86	3.46	3.16	3.78
USX	14.89	16.12	5.44	9.60	6.70	7.86	5.90	6.56	7.23	2.97
Union Pacific	5.34	8.81	6.62	7.55	7.95	NM	NM	4.80	4.84	6.86
Union Texas Petroleum	12.70	NM	6.35	9.27	9.23	4.81	4.01	4.75	6.99	8.26
Unocal	7.73	34.79	7.85	7.79	6.03	5.22	3.62	5.49	3.86	3.79
TOTAL	$7.57	$10.85	$5.35	$5.28	$9.76	$8.74	$4.18	$4.31	$4.57	$2.85

NA = Not Available
NM = Not Meaningful
Finding Costs = Outlays for Petroleum Exploration and Development/Reserves Additions from extensions & discoveries, improved recovery and revisions

(a) This table reflects oil and gas finding costs excluding property acquisition costs, which gives a more accurate assessment of true finding costs.

SOURCE: Salomon Brothers, Inc., Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

BASIC PETROLEUM DATA BOOK

SECTION VI. PRICES

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Average Annual Wellhead Price of United States Crude Oil
Current and Constant 1982 Dollars
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(a) (1982 = 100)	Price in 1982 Constant Dollars
1947	$1.93	25.6	7.54
1948	2.60	27.7	9.39
1949	2.54	26.3	9.66
1950	2.51	27.3	9.19
1951	2.53	30.4	8.32
1952	2.53	29.6	8.55
1953	2.68	29.2	9.18
1954	2.78	29.3	9.49
1955	2.77	29.3	9.45
1956	2.79	30.3	9.21
1957	3.09	31.2	9.90
1958	3.01	31.6	9.53
1959	2.90	31.7	9.15
1960	2.88	31.7	9.09
1961	2.89	31.6	9.15
1962	2.90	31.7	9.15
1963	2.89	31.6	9.15
1964	2.88	31.6	9.11
1965	2.86	32.3	8.85
1966	2.88	33.3	8.65
1967	2.92	33.4	8.74
1968	2.94	34.2	8.60
1969	3.09	35.6	8.68
1970	3.18	36.9	8.62
1971	3.39	38.1	8.90
1972	3.39	39.8	8.52
1973	3.89	45.0	8.64
1974	6.74	53.5	12.60
1975	7.56	58.4	12.95
1976	8.14	61.1	13.32
1977	8.57	64.9	13.20
1978	8.96	69.9	12.82
1979	12.51	78.7	15.90
1980	21.59	89.8	24.04
1981	31.77	98.0	32.42
1982	28.52	100.0	28.52
1983	26.19	101.3	25.85
1984	25.88	103.7	24.96
1985	24.09	103.2	23.34
1986	12.51	100.2	12.49
1987	15.40	102.8	14.98

See notes and sources at end of table

Section VI
Table 1a

Average Annual Wellhead Price of United States Crude Oil
Current and Constant 1982 Dollars
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(a) (1982 = 100)	Price in 1982 Constant Dollars
1988	12.58	106.9	11.77
1989	15.86	112.2	14.14
1990	20.03	116.3	17.22
1991	16.50	116.5	14.16

(a) For 1976 and prior years figures are for Wholesale Price Index.

SOURCE: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

Average Annual Wellhead Price of United States Natural Gas
Current and Constant 1982 Cents
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index All Commodities(b) (1982 = 100)	Price in 1982 Constant Cents
1947	6.0	25.6	23.4
1948	6.5	27.7	23.5
1949	6.3	26.3	24.0
1950	6.5	27.3	23.8
1951	7.3	30.4	24.0
1952	7.8	29.6	26.4
1953	9.2	29.2	31.5
1954	10.1	29.3	34.5
1955	10.4	29.3	35.5
1956	10.8	30.3	35.6
1957	11.3	31.2	36.2
1958	11.9	31.6	37.7
1959	12.9	31.7	40.7
1960	14.0	31.7	44.2
1961	15.1	31.6	47.8
1962	15.5	31.7	48.9
1963	15.8	31.6	50.0
1964	15.4	31.6	48.7
1965	15.6	32.3	48.3
1966	15.7	33.3	47.1
1967	16.0	33.4	47.9
1968	16.4	34.2	48.0
1969	16.7	35.6	46.9
1970	17.1	36.9	46.3
1971	18.2	38.1	47.8
1972	18.6	39.8	46.7
1973	21.6	45.0	48.0
1974	30.4	53.5	56.8
1975	44.5	58.4	76.2
1976(b)	58.0	61.1	94.9
1977	79.0	64.9	121.7
1978	90.5	69.9	129.5
1979	117.8	78.7	149.7
1980	159.0	89.8	177.1
1981	198.0	98.0	202.0
1982	246.0	100.0	246.0
1983	259.0	101.3	255.7
1984	266.0	103.7	256.5
1985	251.0	103.2	243.2
1986	194.0	100.2	193.6
1987	167.0	102.8	162.5

See notes and sources at end of table

Average Annual Wellhead Price of United States Natural Gas
Current and Constant 1982 Cents
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index All Commodities(b) (1982 = 100)	Price in 1982 Constant Cents
1988	169.0	106.9	158.1
1989	169.0	112.2	150.6
1990	172.0	116.3	147.9
1991	159.0	116.5	136.5

(a) For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i.
For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.

(b) For 1976 and prior years, figures are for Wholesale Price Index.

SOURCE: Current Price, U.S. Energy Information Administration.
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1968(a)	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99
1984	28.53	28.88	28.63
1985	26.65	27.03	26.76
Jan.	26.89	26.51	27.02
Feb.	26.39	27.05	26.53
Mar.	26.61	27.23	26.77
Apr.	26.79	27.61	27.04
May	26.90	27.62	27.11
Jun.	26.50	27.27	26.69
Jul.	26.67	26.46	26.61
Aug.	26.45	26.62	26.50
Sep.	26.39	26.59	26.44
Oct.	26.59	26.80	26.65
Nov.	26.72	27.12	26.85
Dec.	26.91	26.60	26.82

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1986	14.83	13.98	14.55
Jan.	25.94	24.92	25.64
Feb.	20.42	18.02	19.81
Mar.	15.11	14.21	14.87
Apr.	13.06	13.14	13.08
May	12.99	13.17	13.05
Jun	13.11	12.25	12.82
Jul.	11.82	10.91	11.51
Aug.	11.95	11.87	11.92
Sep.	13.27	12.85	13.11
Oct.	13.20	12.78	13.05
Nov.	13.21	13.46	13.30
Dec.	13.67	14.16	13.85
1987	17.77	18.16	17.91
Jan.	16.02	16.43	16.17
Feb.	16.76	16.96	16.82
Mar.	16.93	17.24	17.03
Apr.	17.21	17.88	17.43
May	17.64	18.24	17.84
Jun	18.34	18.71	18.47
Jul	19.05	19.25	19.14
Aug.	19.41	19.30	19.36
Sep.	18.58	18.55	18.57
Oct.	18.37	18.57	18.45
Nov.	17.95	18.16	18.03
Dec.	17.03	17.45	17.19
1988	14.73	14.71	14.73
Jan.	15.82	16.10	15.92
Feb.	15.61	15.61	15.72
Mar.	14.92	14.82	14.88
Apr.	15.88	15.69	15.81
May	16.35	16.02	16.22
Jun	15.83	15.52	15.71
Jul	14.65	14.80	14.71
Aug.	14.36	14.37	14.36
Sep.	13.97	13.90	13.94
Oct.	12.90	13.03	12.96
Nov.	12.61	12.54	12.58
Dec.	13.88	14.08	13.97

See notes and sources at end of table

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1989	17.87	18.08	17.97
Jan.	15.50	16.04	15.73
Feb.	16.11	16.61	16.32
Mar.	17.34	17.77	17.52
Apr.	18.91	19.59	19.22
May	19.01	19.05	19.03
Jun.	18.56	18.27	18.43
Jul.	18.32	17.99	18.18
Aug.	17.23	17.23	17.23
Sep.	17.70	17.62	17.66
Oct.	18.20	18.29	18.24
Nov.	18.45	18.32	18.39
Dec.	19.16	20.05	19.54
1990	22.43	22.20	22.34
Jan.	20.75	20.51	20.64
Feb.	20.75	19.78	20.31
Mar.	19.32	18.94	19.14
Apr.	17.37	16.66	17.05
May	16.45	16.07	16.27
Jun.	15.06	15.15	15.11
Jul.	15.86	16.54	16.19
Aug.	22.96	24.26	23.55
Sep.	30.14	29.88	30.03
Oct.	33.32	32.88	33.14
Nov.	30.75	30.19	30.52
Dec.	26.46	25.56	26.09
1991	19.35	18.73	19.08
Jan.	23.25	22.41	22.90
Feb.	19.53	18.30	19.02
Mar.	18.12	17.59	17.89
Apr.	18.56	18.27	18.43
May	18.98	18.14	18.60
Jun.	18.16	17.78	17.98
Jul.	18.91	18.14	18.57
Aug.	19.10	18.71	18.92
Sep.	19.31	19.00	19.17
Oct.	20.39	19.92	20.18
Nov.	20.01	19.35	19.72
Dec.	17.84	17.17	17.56

(a) Not available prior to 1968.

SOURCE: U.S. Department of Energy, Annual Energy Review and Monthly Energy Review.

Trend of Wholesale Prices of Commodities used in Petroleum Production
(1982=100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1947	12.5	NA	NA	NA
1948	13.5	NA	NA	NA
1949	14.3	NA	NA	NA
1950	14.6	NA	NA	NA
1951	16.1	NA	NA	NA
1952	16.1	NA	NA	NA
1953	16.8	NA	NA	NA
1954	17.4	18.2	15.3	11.3
1955	18.1	19.3	16.1	12.1
1956	19.2	22.1	17.2	13.3
1957	20.6	24.5	19.1	15.1
1958	20.7	25.3	19.9	15.7
1959	20.7	25.2	20.3	16.0
1960	20.7	25.0	20.3	16.0
1961	21.0	24.7	19.8	15.6
1962	21.3	24.8	19.5	15.4
1963	21.2	25.4	19.7	15.5
1964	21.5	24.9	20.3	16.0
1965	21.6	23.5	21.3	16.8
1966	21.9	23.5	21.3	16.8
1967	22.7	24.0	22.1	17.1
1968	24.2	25.0	22.5	17.6
1969	25.6	26.2	23.1	18.2
1970	27.0	27.2	24.2	19.0
1971(a)	27.9	29.9	26.7	21.0
1972	28.9	32.1	28.4	22.4
1973	30.3	33.4	29.5	23.3
1974	35.9	45.5	37.8	31.0
1975	44.6	54.7	46.8	37.7
1976	49.5	56.3	49.4	41.0
1977	53.8	62.5	54.1	46.2
1978	59.5	71.2	60.1	51.3
1979	65.8	72.8	63.2	54.3
1980	76.3	80.7	72.3	62.8
1981	91.1	94.6	90.2	85.9
1982	100.0	100.0	100.0	100.0
1983	97.4	97.5	89.9	78.0
1984	96.6	97.3	85.4	71.4
1985	96.8	97.2	84.4	66.1
1986	94.3	96.7	78.6	61.6
1987	93.3	97.3	81.2	NA
1988	97.0	99.6	87.4	NA
1989	99.1	92.4	88.7	65.2

See notes and sources at end of table

Trend of Wholesale Prices of Commodities used in Petroleum Production
(1982=100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1990	102.4	NA	NA	NA

NA = Not available
(a) For 1971 and prior years figures are for Wholesale Price Index

SOURCE: U.S. Bureau of Labor Statistics, Producer Price Index

Trend of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

	Retail Price of Regular Grade Gasoline			Price Indexes of Some Other Consumer Items(a)				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Entertainment(b)
	Cents per Gallon			Index: 1982-84 = 100				
1947	16.93	6.18	23.11	22.3	24.1	25.8	39.9	28.0
1948	19.54	6.34	25.88	24.1	26.1	27.5	42.5	29.4
1949	20.27	6.52	26.79	23.8	25.0	28.7	40.8	30.5
1950	20.08	6.68	26.76	24.1	25.4	29.7	40.3	30.3
1951	20.31	6.84	27.15	26.0	28.2	30.9	43.9	31.2
1952	20.04	7.32	27.36	26.5	28.7	32.2	43.5	31.3
1953	21.28	7.41	28.69	26.7	28.3	33.9	43.1	31.6
1954	21.56	7.48	29.04	26.9	28.2	35.1	43.1	31.3
1955	21.42	7.65	29.07	26.8	27.8	35.6	42.9	31.2
1956	21.57	8.36	29.93	27.2	28.0	36.3	43.7	31.7
1957	22.11	8.85	30.96	28.1	28.9	37.0	44.5	32.8
1958	21.47	8.91	30.38	28.9	30.2	37.6	44.6	34.1
1959	21.18	9.31	30.49	29.1	29.7	38.2	45.0	34.7
1960	20.99	10.14	31.13	29.6	30.0	38.7	45.7	35.5
1961	20.53	10.23	30.76	29.9	30.4	39.2	46.1	36.3
1962	20.36	10.28	30.64	30.3	30.6	39.7	46.3	37.2
1963	20.11	10.31	30.42	30.6	31.1	40.1	46.9	37.8
1964	19.98	10.37	30.35	31.0	31.5	40.5	47.3	38.7
1965	20.70	10.45	31.15	31.6	32.2	40.9	47.8	39.0
1966	21.57	10.51	32.08	32.5	33.8	41.5	49.0	39.7
1967	22.55	10.61	33.16	33.4	34.1	42.2	51.0	40.7
1968	22.93	10.78	33.71	34.8	35.3	43.3	53.7	43.0
1969	23.85	10.99	34.84	36.7	37.1	44.7	56.8	45.2
1970	24.55	11.14	35.69	38.8	39.2	46.5	59.2	47.5
1971	25.20	11.23	36.43	40.5	40.4	48.7	61.1	50.0
1972	24.46	11.67	36.13	42.1	123.5	50.4	62.3	51.5
1973	26.88	11.94	38.82	48.2	141.4	52.5	64.6	52.9
1974	40.11	12.30	52.41	55.1	161.7	55.2	69.4	56.9
1975	44.82	12.40	57.22	53.8	59.8	58.0	72.5	62.0
1976	46.97	12.50	59.47	56.9	61.6	61.1	75.2	65.1
1977	50.47	12.60	63.07	60.6	65.5	64.8	78.6	68.3
1978	53.01	12.70	65.71	65.2	72.[illegible]	69.3	81.4	71.9
1979	74.59	13.20	87.79	72.6	79.9	74.3	84.9	76.7
1980	105.30	13.80	119.10	82.4	86.8	80.9	90.9	83.6
1981	116.60	14.50	131.10	90.9	93.6	87.9	95.3	90.1
1982	107.30	14.90	122.20	96.5	97.4	94.6	97.8	96.0
1983	96.40	19.30	115.70	99.6	99.4	100.1	100.2	100.1
1984	91.50	21.40	112.90	103.9	103.2	105.3	102.1	103.8
1985	89.50	22.00	111.50	107.6	105.6	111.8	105.0	107.9
1986	63.00	22.70	85.70	109.7	109.0	118.3	105.9	111.6
1987	66.20	23.50	89.70	113.7	113.5	123.1	110.6	115.3
1988	65.85	24.10	89.95	118.3	118.2	127.8	115.4	120.3

See notes and sources at end of table

Trend of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

	Retail Price of Regular Grade Gasoline			Price Indexes of Some Other Consumer Items(a)				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Entertainment(b)
	Cents per Gallon			Index: 1982-84 = 100				
1989	74.90	25.10	100.00	124.0	125.1	132.8	118.6	126.5
1990	88.00	26.90	114.90	130.7	132.4	138.4	124.1	132.4
1991(c)	81.20	32.80	114.00	136.2	136.3	143.3	128.7	138.4

(a) Beginning in July 1978, the CPI was given in two forms, CPI-U and CPI-W. The index used above is CPI-U.

(b) Represented "Reading and Recreation" prior to July 1978.

(c) Beginning in 1991, retail gasoline prices are for regular unleaded gasoline.

SOURCE: 1947-1978: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-1980: Retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
1981-1991: Retail price of gasoline, Bureau of Labor Statistics
Price indexes: U.S. Department of Labor, Bureau of Labor Statistics

United States Annual Average Retail Price of #2 Home Heating Oil

Year	Cost per Gallon(a) (current cents)	Consumer Price Index (1982-84 = 100)	Cost Per Gallon (constant cents)
1956 (b)	15.21	27.2	55.92
1957	15.98	28.1	56.87
1958	15.07	28.9	52.15
1959	15.29	29.1	52.54
1960	15.02	29.6	50.74
1961	15.62	29.9	52.24
1962	15.62	30.2	51.72
1963	15.97	30.6	52.19
1964	16.06	31.0	51.81
1965	16.04	31.5	50.92
1966	16.43	32.4	50.71
1967	16.91	33.4	50.63
1968	17.44	34.8	50.11
1969	17.82	36.6	48.69
1970	18.48	38.8	47.63
1971	19.63	40.5	48.47
1972	19.72	41.8	47.18
1973	22.75	44.4	51.24
1974	36.01	49.3	73.04
1975	38.98	53.8	72.45
1976	41.80	56.9	73.46
1977	47.37	60.6	78.17
1978	50.80 (e)	65.2	77.91
1979	72.80	72.6	100.28
1980	100.97	82.4	122.54
1981	124.66	90.9	137.14
1982	120.86	96.5	125.24
1983	110.12	99.6	110.56
1984	111.97	103.9	107.77
1985	107.55	107.6	99.95
1986	83.45	109.6	76.14
1987	85.15	113.6	74.96
1988	84.63	118.3	71.54
1989	88.76	124.0	71.58
1990	108.74	130.7	83.20
1991	101.82	136.2	74.76

(a) Includes all applicable taxes.
(b) Data prior to 1956 is not available on a comparable basis.
(e) Estimate.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics
BLS Monthly prices averaged by API to derive annual average price

Section VI
Table 7

Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead

Year	Value (Thousand dollars)		Production (Trillion BTU)		Price at Wellhead (Cents per million BTU)		Price at Wellhead (1982 constant cents per million BTU)	
	Oil(a)	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1947	$3,577,890	$274,709	10,771	5,012	33.2	5.5	129.7	21.4
1948	5,245,080	333,173	11,717	5,615	44.8	5.9	161.7	21.4
1949	4,674,770	344,034	10,683	5,911	43.8	5.8	166.5	22.1
1950	4,963,380	408,521	11,449	6,841	43.4	6.0	159.0	21.9
1951	5,690,410	542,964	13,037	8,106	43.6	6.7	143.4	22.0
1952	5,785,230	623,649	13,282	8,705	43.6	7.2	147.3	24.2
1953	6,327,100	774,966	13,671	9,116	46.3	8.5	158.6	29.1
1954	6,424,930	882,501	13,427	9,488	47.9	9.3	163.5	31.7
1955	6,870,380	978,357	14,445	10,532	47.6	9.3	162.5	31.7
1956	7,296,760	1,083,812	15,344	11,252	47.6	9.6	157.1	31.8
1957	8,079,259	1,201,759	15,346	11,885	52.6	10.1	168.6	32.4
1958	7,379,973	1,317,521	14,154	12,244	52.1	10.8	164.9	34.1
1959	7,473,336	1,556,800	14,662	13,361	51.0	11.7	160.9	36.8
1960	7,420,181	1,789,970	14,664	14,135	50.6	12.7	159.6	39.9
1961	7,565,582	1,996,241	15,185	14,691	49.8	13.6	157.6	43.0
1962	7,774,051	2,145,301	15,495	15,365	50.2	14.0	158.4	44.0
1963	7,965,743	2,328,030	15,741	16,271	50.6	14.3	160.1	45.3
1964	8,017,078	2,387,689	15,691	17,138	51.1	13.9	161.7	44.1
1965	8,158,298	2,494,542	15,930	17,652	51.2	14.1	158.5	43.8
1966	8,726,423	2,702,759	16,925	18,984	51.6	14.2	155.0	42.8
1967	9,375,727	2,898,741	18,100	20,087	51.8	14.4	155.1	43.2
1968	9,794,826	3,168,688	18,593	21,548	52.7	14.7	154.1	43.0
1969	10,426,680	3,455,615	18,886	22,838	55.2	15.1	155.1	42.5
1970	11,173,726	3,745,680	20,401	24,154	54.8	15.5	148.5	42.0
1971	11,692,998	4,085,482	20,033	24,805	58.4	16.5	153.3	43.2
1972	11,706,510	4,180,462	20,041	24,792	58.4	16.9	146.7	42.4
1973	13,057,905	4,894,072	19,493	24,746	67.0	19.8	148.9	43.9
1974	21,580,549	6,573,402	18,575	23,689	116.2	27.7	217.2	51.9
1975	23,116,059	8,945,062	17,729	20,531	130.4	43.6	223.3	74.6
1976	24,229,540	11,571,776	17,262	20,371	140.4	56.8	229.8	93.0
1977	25,790,722	15,824,954	17,454	20,025	147.8	79.0	227.7	121.8
1978	28,477,824	18,084,914	18,420	20,393	154.4	88.7	220.9	126.9
1979	39,051,332	24,113,634	18,064	20,901	216.7	115.4	275.3	146.6
1980	65,722,016	32,043,704	18,249	20,482	360.2	156.4	401.1	174.2
1981	99,396,384	39,551,253	18,147	22,011	547.8	179.7	559.0	183.4
1982	90,029,512	45,496,765	18,309	20,502	491.7	221.9	491.7	221.9
1983	82,745,734	43,614,369	18,325	18,757	451.5	232.5	445.7	229.5
1984	84,102,132	48,404,611	18,848	20,217	446.2	239.4	430.3	230.9
1985	78,851,236	43,182,598	18,992	19,124	415.2	225.8	402.3	218.8
1986	39,634,833	32,607,825	18,376	18,638	215.7	175.0	215.3	174.6
1987	46,960,095	28,888,630	17,675	19,292	265.7	149.7	258.5	145.7
1988	37,478,151	30,170,751	17,279	19,786	216.9	152.5	202.9	142.6

See notes and sources at end of table

Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead

Year	Value (Thousand dollars) Oil(a)	Value (Thousand dollars) Gas	Production (Trillion BTU) Oil	Production (Trillion BTU) Gas	Price at Wellhead (Cents per million BTU) Oil	Price at Wellhead (Cents per million BTU) Gas	Price at Wellhead (1982 constant cents per million BTU) Oil	Price at Wellhead (1982 constant cents per million BTU) Gas
1989	44,043,552	30,575,912	16,117	19,975	273.3	153.1	243.6	136.4
1990	53,774,280	31,658,176	15,571	20,548	345.3	154.5	296.9	132.8

(a) Beginning in 1981, dollar value computed by API based on wellhead price times production.

SOURCE: 1947-1975: Dollar value and production, U.S. Bureau of Mines
1976-1980: Dollar value and production, U.S. Energy Information Administration
1981-1989: Production and wellhead price, U.S. Energy Information Administration
U.S. Bureau of Labor Statistics, Producer Price Index
Constant price at wellhead computed by the American Petroleum Institute

Section VI
Table 8

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	2.75	2.59	2.59
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	1.58	2.20	2.79	3.04	3.04
Arizona(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	1.82	2.48	2.48	2.46	2.48	2.46	2.60	2.73	2.71	2.69	2.92	2.82	2.77	2.77	2.75	2.66	2.66
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46	2.43	2.50	2.48
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90	2.88	2.88	2.88
Florida(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96	2.99	2.98	2.98
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94	2.98	2.98	2.96
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90	2.89	2.91	2.91
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85	2.97	2.95	2.92
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14	3.15	3.15	3.12
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91	2.92	2.85	2.85
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83	2.82	2.78	2.76
Missouri(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1.94	2.58	2.58	2.52	2.47	2.25	2.16	2.20	2.26	2.58	2.70	2.65	2.56	2.41	2.42	2.42	2.44
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87	2.85	2.83	2.83
Nevada(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85	2.86	2.88	2.88
New York(b)	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64	4.76	4.60	4.59
North Dakota	-	-	-	-	-	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71	2.72	2.75	2.73
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97	3.09	3.10	3.15
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92	2.91	2.92	2.91
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55	4.71	4.57	4.56
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96	2.97	2.99	2.97
Utah	-	-	-	-	-	-	-	-	-	-	2.27	2.99	2.86	2.74	2.75	2.74	2.72
Virginia(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07	4.14	4.00	3.99
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51	2.50	2.49	2.50
Other states	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.90	2.93	2.94	2.45	2.31	2.10	2.06
U.S. TOTAL	1.93	2.60	2.54	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90	2.88	2.89	2.90	2.89

See notes and sources at end of table

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	2.60	2.61	2.60	2.65	2.67	2.70	2.84	3.00	3.07	3.58	8.54	10.13	10.57	9.67	10.52	11.79	20.57
Alaska	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03	6.14	5.23	10.25	16.52
Arizona(b)	-	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29	12.30
Arkansas	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	10.63	14.72	24.17
California	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	8.58	12.78	23.87
Colorado	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	10.84	13.28	22.91
Florida(b)	-	-	-	-	-	-	-	-	3.18	4.59	9.66	11.71	11.24	11.67	12.00	13.07	18.84
Illinois	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.81	23.49	35.78
Indiana	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.70	23.28	35.91
Kansas	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	21.57	34.20
Kentucky	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.55	34.98
Louisiana	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.03	11.42	19.87
Michigan	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	11.86	14.47	23.54
Mississippi	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	7.91	10.74	20.85
Missouri(b)	-	-	-	-	-	-	-	-	-	-	-	-	13.30	12.50	12.25	25.68	37.75
Montana	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.04	12.03	20.53
Nebraska	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	18.13	30.60
Nevada(b)	-	-	-	-	-	-	-	-	-	-	-	-	10.35	11.50	12.00	11.54	16.65
New Mexico	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.17	14.33	24.06
New York(b)	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	14.74	23.78	37.39
North Dakota	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	9.75	13.64	26.42
Ohio	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.80	22.79	36.64
Oklahoma	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	11.30	17.53	29.25
Pennsylvania	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.72	24.13	37.46
South Dakota	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.16	15.35	28.81
Tennessee(b)	-	-	-	-	-	-	-	-	-	-	9.44	11.51	13.72	13.75	12.70	20.26	34.29
Texas	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.65	21.84
Utah	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41	19.79
Virginia(b)	-	-	-	-	-	-	-	-	-	-	-	-	11.68	12.50	12.50	24.80	37.21
West Virginia	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.48	23.35	36.92
Wyoming	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	11.73	21.34
Other states	2.12	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	5.77	6.33	-	-	-	-	-
U.S. TOTAL	2.88	2.86	2.88	2.92	2.94	3.09	3.18	3.39	3.39	3.89	6.74	7.56	8.15	8.57	9.00	12.64	21.59

See notes and sources at end of table

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	35.80	32.32	30.07	29.39	25.77	13.91	16.80	13.86	17.14	22.10
Alaska	23.60	20.08	17.92	18.13	17.12	6.71	10.83	8.43	11.93	15.60
Arizona(b)	24.00	31.00	30.00	28.00	27.00	15.15	17.35	14.57	18.30	23.38
Arkansas	33.69	30.12	28.28	28.15	25.79	14.54	17.23	14.41	17.21	21.55
California	26.80	24.58	22.61	22.09	22.14	11.90	13.92	10.97	13.98	17.80
Colorado	35.69	31.56	28.92	28.09	25.64	13.98	17.71	14.83	18.72	23.16
Florida(b)	25.00	32.00	31.10	31.00	29.00	23.13	16.05	16.43	11.75	18.25
Illinois	36.03	31.69	29.12	28.76	26.90	14.70	17.53	14.79	18.24	23.36
Indiana	36.07	31.66	29.06	28.72	26.82	14.55	17.49	14.78	18.26	23.46
Kansas	35.80	30.79	28.45	27.99	25.33	14.02	17.37	14.55	18.04	23.21
Kentucky	35.90	31.19	28.60	28.24	26.20	14.20	17.19	14.58	18.23	23.20
Louisiana	35.45	32.44	30.02	29.67	27.22	15.32	17.97	15.22	18.21	23.03
Michigan	35.74	31.80	28.93	28.54	26.16	14.61	17.63	14.92	17.95	22.90
Mississippi	30.47	29.04	26.76	27.26	25.51	13.63	16.78	13.98	16.87	21.04
Missouri(b)	34.38	31.25	31.20	27.50	25.00	15.25	17.25	14.50	17.75	21.50
Montana	34.69	31.25	28.80	28.07	25.29	13.58	16.57	13.84	16.91	21.59
Nebraska	35.32	30.98	28.58	27.83	25.42	13.70	17.08	14.08	17.23	21.94
Nevada(b)	23.96	23.95	23.80	25.80	26.00	12.00	11.50	12.50	15.80	17.30
New Mexico	35.04	31.82	29.26	28.69	26.84	14.93	17.57	14.78	17.73	22.43
New York(b)	34.15	30.91	28.19	27.70	25.19	16.03	17.40	16.00	17.70	23.32
North Dakota	35.63	31.89	29.27	28.39	25.32	13.54	16.76	13.85	16.99	21.93
Ohio	36.11	30.90	28.14	27.71	25.11	15.51	17.42	15.19	18.01	23.09
Oklahoma	35.43	32.04	29.67	29.11	26.28	14.47	17.62	14.86	18.11	22.92
Pennsylvania	36.03	30.77	28.28	27.71	25.05	15.77	17.43	15.26	18.12	23.00
South Dakota	35.55	31.63	29.10	28.36	25.79	13.81	16.96	14.04	17.19	22.32
Tennessee(b)	33.00	32.10	32.00	29.00	26.00	15.00	15.84	13.99	18.00	19.72
Texas	35.06	31.77	29.35	28.87	26.80	14.73	17.55	14.71	17.68	22.36
Utah	34.14	30.50	28.12	27.21	23.98	13.33	17.22	14.24	18.48	22.61
Virginia(b)	36.25	32.35	32.25	27.28	24.75	15.00	15.75	13.95	18.17	22.00
West Virginia	35.63	29.98	27.27	26.90	24.35	14.68	16.56	14.35	17.13	22.16
Wyoming	32.30	29.37	27.19	26.73	24.67	12.94	16.45	13.47	16.60	21.05
Other states	-	-	-	-	-	-	-	-	-	-
U.S. TOTAL	31.77	28.52	26.19	25.88	24.09	12.51	15.40	12.58	15.74	20.03

(a) Data represent the average first purchase prices of crude at the lease or wellhead.

(b) Prices for these states included in "other states" from 1947-1975. 1976-1989, they were estimated by the IPAA

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1989: U.S. Energy Information Administration

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	-	-	-	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3	7.4	9.8	11.8
Alaska	-	-	-	-	-	-	-	-	-	-	-	12.0	12.0	12.2	20.4	21.4	24.7
Arizona	-	-	-	-	-	-	-	-	-	14.0	-	-	-	-	-	11.9	12.1
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9	13.5	14.9	15.5
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7	28.3	29.0	29.3
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9	11.6	11.6	11.7
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2	18.9	20.7	20.0
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5	12.8	14.3	12.9
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8	20.1	21.1	23.4
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7	12.5	12.4	13.3
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4	24.8	24.8	23.9
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1	18.7	19.7	19.8
Maryland	-	-	-	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6	27.2	27.0	26.9
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4	21.1	21.3	27.1
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8	18.6	19.0	18.0
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	-	-	25.0	24.7	25.0	27.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1	7.4	7.4	7.5
Nebraska	-	-	-	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5	16.7	18.2	18.8
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7	10.9	11.5	11.9
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9	29.5	28.1	29.5
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4	12.6	13.7	19.1
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5	24.9	25.6	24.2
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9	12.1	12.8	13.0
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8	29.4	27.2	26.0
South Dakota	6.0	6.5	6.3	-	5.0	5.0	5.0	5.0	-	-	-	-	-	-	-	-	-
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5	18.3	18.5	18.9
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3	12.3	12.3	12.5
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0	15.7	16.8	18.2
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1	27.1	27.1	23.4
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2	27.4	27.5	26.6
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0	12.5	14.6	14.2
Total	6.0	6.5	6.3	6.5	7.3	7.8	9.2	10.1	10.4	10.8	11.3	11.9	12.9	14.0	15.1	15.5	15.8

See notes and sources at end of table

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5	147.0	150.0	203.9	318.6
Alaska	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9	40.2	52.1	51.8	73.2
Arizona	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2	33.5	37.0	41.3	NA
Arkansas	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0	58.5	75.0	95.9	69.6
California	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0	116.9	135.7	170.5	217.0
Colorado	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0	81.0	84.0	141.0	147.0
Florida	13.5	12.9	14.2	14.8	15.2	15.7	-	29.9	32.0	34.3	53.6	97.3	98.2	108.9	139.0	157.2	173.0
Illinois	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5	120.0	129.0	186.1	190.0
Indiana	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0	69.0	71.0	105.4	135.0
Kansas	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0	48.5	57.0	75.6	77.2
Kentucky	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0	55.0	58.0	94.7	89.3
Louisiana	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0	70.3	83.6	111.5	160.7
Maryland	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3	39.0	61.4	103.6	45.6
Michigan	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5	101.0	119.7	174.0	235.5
Mississippi	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0	73.0	114.6	160.0	231.7
Missouri	24.3	24.5	-	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5	42.0	-	-	-
Montana	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5	71.9	84.7	121.1	145.4
Nebraska	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3	65.2	68.0	85.0	82.9
New Mexico	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5	81.0	98.8	136.6	175.8
New York	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0	116.0	119.0	126.6	194.9
North Dakota	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0	35.3	46.2	128.0	118.8
Ohio	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8	139.7	157.0	180.5	197.7
Oklahoma	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2	79.0	90.2	112.4	150.7
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213.0	240.0
Pennsylvania	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5	80.0	86.0	132.6	212.7
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210.7	NA
Tennessee	19.5	19.0	-	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0	74.0	164.0	170.0	176.0
Texas	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8	90.3	99.5	123.4	156.5
Utah	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5	61.2	64.3	71.6	111.7
Virginia	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0	126.0	131.3	168.1	285.0
West Virginia	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0	61.0	65.8	105.0	300.0
Wyoming	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0	64.0	79.3	113.0	192.0
Total	15.4	15.6	15.7	16.0	16.4	16.7	17.1	18.2	18.6	21.6	30.4	44.5	58.0	79.0	90.5	117.8	159.0

See notes and sources at end of table

Section VI
Table 9b

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	477.0	344.0	428.0	373.0	371.0	289.0	297.0	265.0	272.0	275.0
Alaska	62.0	63.0	73.0	73.0	74.0	50.0	94.0	127.0	136.0	138.0
Arizona	NA	259.0	308.0	290.0	NA	NA	NA	NA	180.0	120.0
Arkansas	181.0	213.0	229.0	254.0	255.0	251.0	229.0	194.0	241.0	206.0
California	257.0	309.0	357.0	380.0	336.0	289.0	237.0	239.0	232.0	236.0
Colorado	197.0	317.0	338.0	343.0	290.0	205.0	176.0	159.0	152.0	155.0
Florida	271.0	246.0	233.0	257.0	243.0	120.0	168.0	153.0	205.0	225.0
Illinois	247.0	262.0	284.0	278.0	277.0	257.0	224.0	219.0	215.0	211.0
Indiana	208.0	155.0	209.0	338.0	251.0	123.0	171.0	157.0	171.0	201.0
Kansas	92.0	151.0	157.0	149.0	127.0	121.0	115.0	136.0	144.0	156.0
Kentucky	101.0	152.0	151.0	170.0	239.0	188.0	182.0	256.0	213.0	224.0
Louisiana	207.0	260.0	267.0	273.0	266.0	221.0	178.0	181.0	182.0	183.0
Maryland	48.0	78.0	55.0	55.0	59.0	65.0	55.0	93.0	85.0	114.0
Michigan	286.0	319.0	358.0	376.0	360.0	360.0	324.0	318.0	316.0	300.0
Mississippi	321.0	391.0	378.0	347.0	317.0	213.0	194.0	186.0	197.0	176.0
Missouri	-	-	-	375.0	350.0	375.0	375.0	375.0	350.0	157.0
Montana	191.0	215.0	241.0	246.0	239.0	205.0	180.0	170.0	155.0	179.0
Nebraska	145.0	199.0	293.0	224.0	301.0	282.0	242.0	266.0	223.0	226.0
New Mexico	213.0	247.0	268.0	271.0	262.0	187.0	166.0	170.0	156.0	169.0
New York	267.0	375.0	385.0	400.0	337.0	339.0	200.0	230.0	220.0	220.0
North Dakota	194.0	230.0	227.0	226.0	190.0	135.0	130.0	200.0	178.0	179.0
Ohio	217.0	271.0	324.0	319.0	308.0	284.0	258.0	255.0	255.0	254.0
Oklahoma	188.0	274.0	283.0	272.0	247.0	171.0	147.0	155.0	159.0	157.0
Oregon	260.0	333.0	333.0	278.0	240.0	200.0	145.0	160.0	140.0	139.0
Pennsylvania	233.0	280.0	300.0	325.0	316.0	250.0	225.0	215.0	240.0	235.0
South Dakota	275.0	308.0	337.0	367.0	251.0	246.0	271.0	195.0	111.0	156.0
Tennessee	255.0	300.0	250.0	350.0	248.0	178.0	131.0	150.0	165.0	165.0
Texas	187.0	217.0	236.0	245.0	233.0	165.0	147.0	151.0	153.0	157.0
Utah	110.0	306.0	340.0	408.0	352.0	290.0	188.0	239.0	158.0	170.0
Virginia	215.0	369.0	330.0	300.0	302.0	245.0	208.0	208.0	219.0	230.0
West Virginia	300.0	320.0	310.0	345.0	385.0	390.0	385.0	305.0	311.0	319.0
Wyoming	277.0	322.0	318.0	332.0	301.0	252.0	176.0	153.0	124.0	116.0
Total	198.0	246.0	259.0	266.0	251.0	194.0	167.0	169.0	169.0	171.0

SOURCE: 1947-1975: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals
1976-1990: U.S. Energy Information Administration, Natural Gas Annuals.

Section VI
Table 10

Posted Prices of Key Foreign Crude Oils(a)
(U.S. Dollars per barrel)

CRUDE &		1970	1971(b)	1972				1973(b)			1974		1975		1977	1979
GRAVITY		31 Aug	15 Feb	20 Jan	1 Jan	1 Oct	16 Oct	1 Nov	1 Jan	1 July	1 Nov	1 Jan	1 Oct	1 Jan	1 July	1 Jan
		PERSIAN/ARABIAN GULF CRUDES														
Saudi Arabia																
Arab Light	**34o**	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66	14.34
Arab Berri	**39**	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22	14.93
Arab Medium	**31**	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25	13.91
Arab Heavy	**27**	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92	13.57
Iran																
Iran Light	**34**	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77	14.45
Iran Heavy	**31**	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43	14.10
Kuwait																
Kuwait	**31**	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	NA	NA	NA
Abu Dhabi																
Murban	**39**	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26	14.97
Marine (Umm Shaif)		37.00	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.72
Zakum	**40**	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16	14.87
Iraq																
Basrah	**35**	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	NA	NA	NA
Qatar																
Dukhan	**40**	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18	14.89
Marine	**36**	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.98	13.98	14.68
Oman																
Oman	**34**	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98	14.68
		MEDITERRANEAN & AFRICAN CRUDES														
Saudi Arabia																
Arab Light	**34**	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	NA	NA	NA
Iraq																
Kirkuk	**36**	2.21	2.41	3.40	3.48	4.24	7.21	7.29	NA	NA	NA	NA	NA	NA	NA	NA
Libya																
Libya	**40**	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.06	18.25	18.78	19.72
Nigeria																
Nigeria	**34**	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	NA	NA	NA
		VENEZUELAN CRUDES (Reference Prices)														
Venezuela																
Tia Juana	**26**	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	NA	NA	NA
Tia Juana	**31**	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	NA	NA	NA
Oficina	**35**	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	NA	NA	NA

NA = Not Available

(a) Postings in effect on dates shown or thereabouts. Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.
(b) Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.
Note: This series has been discontinued.

SOURCE: Petroleum Intelligence Weekly

Section VI
Table 11

Official Government Selling Prices of Key Foreign Crude Oils(a)
(Dollars per Barrel)

				1974			1975		1976		1977			1979
CRUDE & GRAVITY	1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July	1 Jan.	1 Apr.	1 July
	PERSIAN / ARABIAN CRUDES													
Saudi Arabia														
Arab Light	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70	13.34	14.55	18.00
Arab Berri	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22	14.06	16.47	21.32
Arab Medium	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32	12.89	14.05	17.54
Arab Heavy	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02	12.51	13.64	17.17
Iran														
Iran Light	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81	13.45	16.57	22.00 (e)
Iran Heavy	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49	13.06	16.04	19.90 (e)
Kuwait														
Kuwait	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27	12.83	15.80	19.49
Abu Dhabi														
Murban	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26	14.10	17.10	21.56
Umm Shaif	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04	13.78	16.88	21.36
Zakum	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17	14.01	17.01	21.46
Iraq														
Basrah	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46	12.65	12.65 (e)	13.29	15.70	19.96
Kirkuk	NA	NA	NA	NA	NA	NA	11.60	11.65	11.70	12.89	12.85 (e)	13.52	15.95	21.25
Qatar														
Dukhan	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19	14.03	17.04	21.42
Marine	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00	13.77	16.85	21.23
Oman														
Oman	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70	12.74	13.00	13.65 (e)	14.88 (e)	NA
	MEDITERRANEAN AND AFRICAN CRUDES													
Iraq														
Kirkuk	NA	NA	NA	NA	10.67	11.74	11.95	NA	NA	NA	13.50	NA	NA	NA
Libya														
Brega	NA	NA	NA	NA	11.20	12.32	12.32	12.32	12.62	13.92	14.20	14.69	18.25	23.45
Nigeria														
Bonny	NA	NA	NA	NA	11.43	12.60	12.84	12.89	13.10	14.33	14.63	14.80	18.50	23.49
	OTHER CRUDES													
Indonesia														
Sumatra Light	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55	14.23 (e)	15.51 (e)	NA
Venezuela														
Tia Juana	NA	NA	NA	NA	11.62	11.39	11.12	11.22	11.65	12.72	12.71	13.36	15.76	19.31
Tia Juana	NA	NA	NA	NA	11.05	12.06	12.30	12.30	12.30	12.35	13.54	14.22	16.70	20.90
Oficina	NA	NA	NA	NA	11.49	12.54	12.80	12.80	12.80	13.99 (b)	NA	14.69	17.21	22.45
Ecuador														
Oriente	NA	NA	NA	NA	NA	NA	NA	11.60	11.60	13.00	13.00	13.18	20.60	NA

See notes and sources at end of table

Section VI
Table 11a

Official Government Selling Prices of Key Foreign Crude Oils(a)
(Dollars per Barrel)

	1980		1981		1982	1983	1985	1987
CRUDE & GRAVITY	1 Jan.	1 June	19 Feb.	1 Nov.	1 Jan.	Mar.	Feb.	Feb.
Saudi Arabia								
Arab Light	26.00	28.00	32.00	34.00	34.00	29.00	28.00	17.52
Arab Berri	27.52	29.52	33.52	35.60	35.40	29.50	28.11	17.87
Arab Medium	25.45	27.45	31.45	33.00	32.40	27.40	27.40	16.92
Arab Heavy	25.00	27.00	31.00	31.50	31.00	26.00	26.50	16.27
Iran								
Iran Light	28.50	35.37	37.00	34.60	34.20	28.00	28.05	17.50
Iran Heavy	27.77	34.37	36.00	33.40	32.30	27.30 (e)	27.35	16.89
Kuwait								
Kuwait	25.50	29.50	35.50	33.00	32.30	27.30	27.30	16.67
Abu Dhabi								
Murban	27.56	31.56	36.56	35.70	35.50	29.56	28.15	17.92
Umm Shaif	27.36	31.36	36.36	35.50	35.30	29.36	28.05	17.30
Zakum	27.46	31.46	36.46	35.60	35.40	29.46	28.10	17.82
Iraq								
Basrah	25.96	29.96	35.96	34.67	32.65 (e)	28.46 (e)	NA	17.30
Kirkuk	26.18	30.18	37.50	35.11	34.93	29.83	NA	17.60
Qatar								
Dukhan	27.42	31.42	37.42	35.65	35.45	29.49	28.10	17.82
Marine	27.23	31.23	37.23	35.50	35.30	29.30	28.05	17.67
Oman								
Oman	30.26	35.56	37.56	34.06	35.06	30.06	NA	17.63
Iraq								
Kirkuk	NA	NA	NA	NA	NA	NA	NA	NA
Libya								
Brega	34.67	36.67	41.00	37.50	37.00	30.50	NA	18.67
Nigeria								
Bonny	29.99	36.71	40.02	36.52	36.52	30.00	28.67	18.92
Indonesia								
Sumatra Light	27.50	31.50	35.00	35.00	35.00	29.53	28.53	17.56
Venezuela								
Tia Juana	25.20	29.28	32.88	32.88	32.88	27.88	27.60	16.72
Tia Juana	26.90	32.40	36.00	35.00	35.00	29.84	28.24	17.62
Oficina	28.75	34.25	38.06	37.06	37.06	31.09	28.80	NA
Ecuador								
Oriente	31.00	NA	39.30 (e)	33.15	33.25	28.25	NA	17.02

(e) Estimates by PIW

NA = Not available

(a) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining and equity interest in Middle East oil producing ventures.

(b) Estimate by Petroleum Economist, October 1977

SOURCE: Petroleum Intelligence Weekly

Section VI
Table 12

Average United States Retail Gasoline Prices for Selected Cities(a)

	1920	1930	1940	1950	1960	1970	1971	1972	1973	1974	1975	1976	1977
Average U.S.	29.83	19.95	18.41	26.76	31.13	35.69	36.43	36.13	38.82	52.41	57.22	59.47	63.07
Alabama, Birmingham	30.04	20.50	21.71	29.33	31.23	35.23	35.62	36.79	38.57	51.67	53.15	58.25	64.00
Arizona, Phoenix	32.50	20.71	21.25	26.47	26.57	35.07	35.90	35.40	38.28	51.32	57.73	60.48	63.65
Arkansas, Little Rock	30.42	17.63	20.83	29.17	29.48	34.32	35.57	34.65	36.98	50.66	57.34	60.32	64.40
California, Los Angeles	-	-	-	-	29.57	34.15	35.32	34.47	38.04	52.28	57.88	60.49	64.23
California, San Francisco	24.17	20.00	17.88	25.12	32.23	35.82	35.82	35.30	39.07	53.30	59.46	61.49	65.15
Colorado, Denver	31.42	19.50	18.38	26.46	33.40	33.73	36.48	35.15	38.87	52.25	58.18	61.23	64.07
Connecticut, Hartford	33.00	19.13	14.48	23.63	29.32	36.98	37.82	37.65	40.98	54.63	57.57	59.99	63.83
District of Columbia	29.46	17.23	15.08	25.36	30.32	35.73	36.05	37.65	39.07	54.33	58.48	60.40	64.31
Florida, Miami(d)	29.25	21.50	19.33	28.03	31.40	35.07	34.65	35.98	38.15	51.31	54.98	57.15	58.82
Georgia, Atlanta	30.04	22.17	20.42	29.71	31.87	35.01	36.23	36.15	38.57	52.59	58.23	58.99	63.65
Idaho, Boise	33.63	26.41	24.18	30.65	37.42	35.07	34.98	35.11	39.95	53.34	59.82	62.22	65.48
Illinois, Chicago	27.17	18.17	15.58	23.30	31.90	38.62	37.60	36.36	40.61	54.74	58.60	60.90	65.74
Indiana, Indianapolis	-	-	-	-	30.73	37.23	37.57	35.56	39.26	53.17	59.08	59.70	62.74
Iowa, Des Moines	27.42	18.33	16.78	25.06	31.57	35.32	36.32	37.23	38.45	51.17	57.32	60.33	64.79
Kansas, Wichita	26.80	15.30	14.99	24.70	29.15	32.98	32.98	32.40	37.78	51.17	57.32	61.33	63.49
Kentucky, Louisville	-	-	-	-	32.80	36.65	37.48	37.28	40.31	53.83	58.20	61.25	64.90
Louisiana, New Orleans	27.75	15.17	20.66	30.17	29.07	35.73	35.57	34.06	36.48	49.74	56.09	60.40	63.74
Maryland, Baltimore	29.58	18.77	17.88	25.74	31.65	35.65	36.07	37.65	39.23	51.21	56.70	58.48	62.46
Massachusetts, Boston	32.63	17.96	14.19	24.18	26.98	35.73	36.57	35.98	39.07	52.40	55.98	58.23	61.16
Michigan, Detroit	28.12	18.28	15.53	25.17	30.93	33.82	34.35	34.23	39.53	53.86	59.42	57.65	62.07
Mississippi, Jackson	-	-	-	-	32.23	35.48	37.52	34.91	38.48	52.09	54.17	57.15	62.29
Missouri, St. Louis	27.58	17.07	16.43	23.04	27.15	34.07	36.15	35.65	39.20	52.17	57.65	59.48	63.40
Montana, Great Falls	-	-	-	-	36.90	36.36	36.57	35.23	39.95	53.17	59.42	60.85	65.44
Nebraska, Omaha	27.25	20.06	17.97	26.75	32.53	37.82	37.40	37.48	40.03	53.17	59.40	63.15	66.15
New Hampshire, Manchester	32.04	21.12	16.02	24.97	30.07	36.40	38.23	37.65	40.07	54.48	56.48	59.40	62.98
New Jersey, Newark	29.88	17.12	15.78	23.18	28.32	37.40	38.07	36.32	38.57	52.30	54.73	55.65	59.40
New Mexico, Albuquerque	32.25	21.00	19.92	30.25	32.90	36.73	36.90	36.48	38.29	52.65	58.98	59.53	63.59
New York, Buffalo	30.92	18.07	16.30	26.15	27.92	36.11	36.28	37.15	40.07	55.38	58.65	61.37	64.61
New York, New York	31.92	17.36	16.11	26.50	31.40	36.93	39.18	44.56	43.73	59.75	61.15	61.81	64.31
North Carolina, Charlotte	31.33	20.94	20.32	29.37	31.03	35.32	37.36	37.31	39.32	51.99	56.76	60.42	61.95
Ohio, Cincinnati	-	-	-	-	31.40	36.65	37.90	37.90	38.65	53.36	57.19	57.23	60.65
Ohio, Cleveland	-	-	-	-	32.32	36.65	37.90	37.80	38.65	53.36	57.19	57.23	60.40
Oklahoma, Tulsa	27.75	19.25	14.58	26.75	30.48	35.07	35.07	34.73	37.53	50.33	56.44	59.46	63.74
Oregon, Portland	26.79	20.96	20.38	27.98	33.65	35.32	35.82	35.48	38.39	51.70	55.50	57.23	61.49
Pennsylvania, Philadelphia	32.00	20.58	15.49	25.19	28.48	36.48	37.23	36.74	37.90	52.88	53.90	56.73	61.40
Rhode Island, Providence	32.63	17.48	14.66	24.08	27.06	36.23	36.90	36.15	38.32	52.57	55.90	58.57	62.15
South Carolina, Charleston	29.17	20.86	20.10	28.07	30.94	34.32	35.73	36.65	38.40	52.88	54.39	57.90	61.23
Tennessee, Memphis	29.00	19.04	22.22	28.22	29.65	35.57	35.48	35.48	37.48	50.51	57.17	59.65	64.07
Texas, Dallas	-	-	-	-	29.23	32.73	33.9	33.15	34.37	47.17	53.53	56.4	59.9
Texas, El Paso	-	-	-	-	28.88	34.73	36.9	35.9	36.29	47.98	55.95	57.4	60.65
Texas, Houston	29.13	18.83	17.17	24	29.32	32.23	32.82	32.34	33.9	47.28	52.4	56.4	60.15
Utah, Salt Lake City	31.88	22.67	19.88	24.42	30.9	34.32	34.98	35.56	37.37	50.17	56.32	58.45	60.94
Virginia, Norfolk	30.08	19.86	20.38	27.33	31.23	35.57	35.23	36.9	39.48	52.73	56.23	60.07	63.98
Washington, Seattle	-	-	-	-	29.57	36.4	36.73	36.35	39.42	52.22	57.18	59.98	64.23
Washington, Spokane	28.92	23.83	21.92	30.63	36.73	36.4	36.57	35.95	39.07	52.72	56.68	60.13	63.87
West Virginia, Charleston	30.33	20.46	20.68	29.23	31.32	35.73	37.73	38.4	39.56	51.23	57.57	59.07	63.14
Wisconsin, Milwaukee	27.35	17.43	19.15	24.9	30.98	33.15	34.48	33.73	38.37	52.13	58.15	58.4	61.4

See notes and sources at end of table

Average United States Retail Gasoline Prices for Selected Cities(a)

Area(b)	1978		1979		1980		1981		1982		1983		1984		1985	
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded
U.S. City Average	0.627	0.670	0.857	0.903	1.191	1.245	1.311	1.378	1.222	1.296	1.157	1.241	1.129	1.212	1.115	1.203
Anchorage, Alaska	0.744	0.767	0.921	0.952	1.241	1.275	1.408	1.465	1.380	1.446	1.253	1.339	1.204	1.294	1.180	1.237
Atlanta, Ga.	0.624	0.668	0.843	0.890	1.197	1.251	1.328	1.397	1.234	1.319	1.143	1.248	1.110	1.225	1.094	1.197
Baltimore, Md.	0.613	0.666	0.844	0.891	1.204	1.251	1.334	1.389	1.288	1.335	1.244	1.296	1.092	1.164	1.092	1.163
Boston, Ma.	0.623	0.660	0.857	0.899	1.199	1.241	1.337	1.391	1.234	1.283	1.155	1.225	1.078	1.175	1.082	1.173
Buffalo, NY.	0.644	0.687	0.899	0.948	1.235	1.280	1.336	1.394	1.248	1.306	1.222	1.288	1.174	1.249	1.145	1.208
Chicago Ill-NW Ind.	0.680	0.730	0.925	0.979	1.246	1.304	1.344	1.410	1.264	1.321	1.223	1.298	1.206	1.284	1.176	1.258
Cincinnati, Oh-Ky-Ind.	0.618	0.655	0.842	0.882	1.154	1.206	1.275	1.345	1.217	1.293	1.187	1.257	1.153	1.218	1.090	1.149
Cleveland, Oh	0.621	0.665	0.839	0.884	1.160	1.203	1.304	1.385	1.269	1.327	1.175	1.248	1.130	1.214	1.081	1.182
Dallas-Ft Worth, Tx	0.579	0.617	0.789	0.833	1.132	1.186	1.245	1.307	1.140	1.209	1.081	1.158	1.072	1.163	1.104	1.142
Denver-Boulder, Colo.	0.612	0.663	0.838	0.886	1.150	1.217	1.259	1.330	1.197	1.273	1.091	1.197	1.049	1.164	1.056	1.155
Detroit, Mich.	0.643	0.696	0.891	0.947	1.242	1.303	1.335	1.395	1.247	1.304	1.227	1.280	1.236	1.278	1.173	1.264
Honolulu, Hawaii	0.759	0.764	0.937	0.976	1.298	1.355	1.409	1.567	1.472	1.542	1.400	1.462	1.368	1.443	1.274	1.396
Houston, Tx	0.567	0.613	0.794	0.835	1.139	1.183	1.261	1.313	1.143	1.212	1.040	1.132	1.015	1.116	1.023	1.092
Kansas City, Mo-Kn	0.604	0.644	0.843	0.886	1.137	1.190	1.237	1.298	1.195	1.262	1.155	1.226	1.082	1.142	1.048	1.124
Los Angeles, Long Beach, Anaheim, Ca.	0.644	0.691	0.892	0.943	1.213	1.271	1.337	1.409	1.232	1.318	1.166	1.215	1.102	1.211	1.088	1.191
Miami, Fla	0.611	0.661	0.841	0.892	1.186	1.235	1.319	1.389	1.257	1.364	1.207	1.326	1.126	1.215	1.115	1.205
Milwaukee, Wisc	0.595	0.631	0.819	0.864	1.139	1.198	1.273	1.329	1.245	1.286	1.190	1.224	1.147	1.202	1.129	1.197
Minneapolis, St. Paul, Minn-Wisc.	0.618	0.654	0.860	0.901	1.175	1.231	1.294	1.360	1.253	1.328	1.211	1.284	1.171	1.223	1.174	1.247
New York, NY-NE N.J.	0.632	0.675	0.882	0.927	1.241	1.286	1.355	1.413	1.249	1.319	1.181	1.257	1.116	1.189	1.114	1.185
NE Penn	0.610	0.650	0.837	0.879	1.178	1.218	1.306	1.353	1.197	1.242	1.157	1.208	1.137	1.204	1.142	1.227
Philadelphia, Pa-NJ.	0.618	0.658	0.855	0.904	1.192	1.233	1.309	1.365	1.188	1.255	1.149	1.210	1.141	1.213	1.113	1.164
Pittsburgh, Pa.	0.628	0.663	0.857	0.893	1.205	1.242	1.356	1.409	1.234	1.312	1.147	1.233	1.147	1.238	1.149	1.213
Portland, Ore-Wash	0.636	0.681	0.870	0.907	1.193	1.226	1.317	1.381	1.257	1.337	1.121	1.230	1.116	1.222	1.115	1.200
St. Louis, Mo-Ill.	0.607	0.656	0.851	0.897	1.145	1.208	1.230	1.299	1.151	1.213	1.111	1.164	1.086	1.142	1.064	1.137
San Diego, Ca.	0.636	0.691	0.881	0.932	1.215	1.280	1.323	1.408	1.240	1.339	1.157	1.253	1.162	1.212	1.119	1.248
San Fran-Oakland, Ca.	0.661	0.717	0.899	0.961	1.243	1.310	1.355	1.436	1.260	1.353	1.154	1.290	1.156	1.302	1.141	1.252
Seattle-Everett, Wash.	0.650	0.677	0.877	0.917	1.211	1.253	1.335	1.401	1.227	1.271	1.145	1.182	1.178	1.217	1.152	1.221
Washington, DC-Md-Va.	0.651	0.702	0.853	0.906	1.224	1.276	1.334	1.393	1.256	1.304	1.232	1.288	1.203	1.302	1.148	1.254
Region (c)																
Northeast	0.631	0.672	0.870	0.913	1.220	1.260	1.344	1.396	1.238	1.298	1.181	1.248	1.133	1.204	1.124	1.201
North Central	0.628	0.671	0.861	0.910	1.183	1.244	1.303	1.370	1.233	1.298	1.191	1.261	1.157	1.233	1.133	1.219
South	0.611	0.654	0.831	0.863	1.172	1.223	1.293	1.360	1.196	1.272	1.132	1.217	1.105	1.192	1.101	1.181
West	0.643	0.695	0.879	0.936	1.201	1.267	1.323	1.405	1.233	1.325	1.132	1.238	1.123	1.220	1.115	1.209

See notes and sources at end of table

Average United States Retail Gasoline Prices for Selected Cities(a)

Area(b)	1986		1987		1988		1989		1990	1991
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Unleaded	Unleaded
U.S. City Average	0.857	0.927	0.897	0.948	0.900	0.946	0.997	1.022	1.164	1.140
Anchorage, Alaska	0.950	0.997	NA	NA	NA	NA	NA	NA	NA	NA
Atlanta, Ga.	0.769	0.888	NA	NA	NA	NA	NA	NA	NA	NA
Baltimore, Md.	0.877	0.921	0.913	0.935	0.956	0.980	NA	1.042	1.158	1.112
Boston, Ma.	0.857	0.922	0.883	0.929	0.923	0.971	NA	1.027	1.186	1.236
Buffalo, NY.	0.861	0.890	NA	NA	NA	NA	NA	NA	NA	NA
Chicago Ill-NW Ind.	0.912	0.953	0.969	1.004	0.982	1.016	NA	1.107	1.278	1.247
Cincinnati, Oh-Ky-Ind.	0.812	0.853	NA	NA	NA	NA	NA	NA	NA	NA
Cleveland, Oh	0.820	0.902	0.880	0.941	NA	0.948	NA	1.019	1.179	1.173
Dallas-Ft Worth, Tx	0.789	0.831	0.856	0.881	0.875	0.885	0.955	0.937	1.093	1.119
Denver-Boulder, Colo.	0.788	0.873	NA	NA	NA	NA	NA	NA	NA	NA
Detroit, Mich.	0.833	0.944	0.859	0.972	0.911	0.969	NA	1.027	1.156	1.109
Honolulu, Hawaii	1.077	1.221	NA	NA	NA	NA	NA	NA	NA	NA
Houston, Tx	0.753	0.796	0.852	0.880	0.852	0.871	NA	0.958	1.119	1.116
Kansas City, Mo-Kn	0.758	0.817	NA	NA	NA	NA	NA	NA	NA	NA
Los Angeles, Long Beach, Anaheim, Ca.	0.879	0.956	0.901	0.931	0.902	0.910	0.969	0.986	1.140	1.074
Miami, Fla	0.895	0.953	0.949	0.983	NA	0.967	NA	0.995	1.099	1.091
Milwaukee, Wisc	0.857	0.899	NA	NA	NA	NA	NA	NA	NA	NA
Minneapolis, St. Paul, Minn-Wisc.	0.902	0.965	NA	NA	NA	NA	NA	NA	NA	NA
New York, NY-NE N.J.	0.859	0.908	0.903	0.936	0.919	0.958	NA	1.039	1.157	1.189
NE Penn	0.869	0.910	NA	NA	NA	NA	NA	NA	NA	NA
Philadelphia, Pa-NJ.	0.869	0.880	0.891	0.895	0.906	0.895	NA	0.979	1.139	1.147
Pittsburgh, Pa.	0.855	0.883	0.887	0.899	0.882	0.882	NA	0.967	1.119	1.123
Portland, Ore-Wash	0.839	0.922	NA	NA	NA	NA	NA	NA	NA	NA
St. Louis, Mo-Ill.	0.797	0.865	0.854	0.897	0.865	0.903	0.945	0.958	1.084	1.034
San Diego, Ca.	0.876	1.004	NA	NA	NA	NA	NA	NA	NA	NA
San Fran-Oakland, Ca.	0.869	0.976	0.870	0.955	0.907	1.011	0.977	1.078	1.240	1.204
Seattle-Everett, Wash.	0.891	0.962	NA	NA	NA	NA	NA	NA	NA	NA
Washington, DC-Md-Va.	0.890	0.983	0.911	0.998	NA	1.044	NA	1.109	1.245	1.176
Region (c)										
Northeast	0.877	0.931	0.900	0.946	0.908	0.954	1.020	1.029	1.169	1.196
North Central	0.859	0.921	0.914	0.958	0.914	0.952	1.018	1.028	1.175	1.143
South	0.831	0.904	0.883	0.943	0.886	0.937	0.998	1.006	1.142	1.116
West	0.873	0.957	0.896	0.946	0.901	0.945	0.987	1.030	1.180	1.121

(a) Regular grade gasoline at full service stations, retail price including tax. Beginning in 1978, prices are for leaded and unleaded. Beginning in 1990, prices are for regular unleaded only.

(b) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are the more extensive Standard Consolidated Areas.

(c) Regions are defined as the four Census regions.

(d) Prices prior to 1970 are for Jacksonville.

SOURCE: 1920-1950: Texaco, Inc.
1960-1977: Platt's Oilgram Price Service
1978-1991: U.S. Bureau of Labor Statistics

Average Price of Natural Gas Consumed by End Use Sector (Dollars per Thousand Cubic Feet)

Year	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers					Total Consumption
			Residential	Commercial(a)	Industrial	Electric Utilities	Total	
1967	0.15	0.20	1.04	0.74	0.34	0.28	0.57	0.53
1968	0.16	0.20	1.04	0.73	0.34	0.22	0.55	0.51
1969	0.18	0.21	1.05	0.74	0.35	0.27	0.57	0.53
1970	0.18	0.21	1.09	0.77	0.37	0.29	0.59	0.55
1971	0.19	0.22	1.15	0.82	0.41	0.32	0.63	0.59
1972	0.20	0.23	1.21	0.88	0.45	0.34	0.68	0.63
1973	0.21	0.25	1.29	0.94	0.50	0.38	0.73	0.68
1974	0.51	0.30	1.43	1.07	0.67	0.51	0.89	0.84
1975	0.47	0.40	1.71	1.35	0.96	0.77	1.19	1.12
1976	0.57	0.51	1.98	1.64	1.24	1.06	1.47	1.38
1977	0.71	0.77	2.35	2.04	1.50	1.32	1.78	1.66
1978	0.79	0.90	2.56	2.23	1.70	1.48	1.98	1.85
1979	1.06	1.32	2.98	2.73	1.99	1.81	2.34	2.21
1980	1.43	1.85	3.68	3.39	2.56	2.27	2.91	2.80
1981	1.93	2.39	4.29	4.00	3.14	2.89	3.51	3.39
1982	2.23	2.97	5.17	4.82	3.87	3.48	4.32	4.15
1983	2.54	3.15	6.06	5.59	4.18	3.58	4.82	4.64
1984	2.71	3.04	6.12	5.55	4.22	3.70	4.85	4.67
1985	2.37	2.92	6.12	5.50	3.95	3.55	4.72	4.54
1986	2.02	2.52	5.83	5.08	3.23	2.43	4.13	3.96
1987	NA	2.17	5.54	4.77	2.94	2.32	4.05	NA
1988	NA	2.10	5.47	4.63	2.95	2.33	4.09	NA
1989	NA	2.01	5.64	4.74	2.97	2.43	4.22	NA
1990	NA	1.95	5.8	4.82	2.93	2.38	3.39	NA

NA = Not available.
(a) Includes deliveries to local, state and federal agencies engaged in non-manufacturing activities.

SOURCE: U.S. Energy Information Administration, Natural Gas Annuals.

Section VI
Table 14

Spot Prices for Selected World Crude Oils
(Mid-month--Dollars per Barrel)

Crude/Type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1984												
Brent(a)	29.30	29.33	29.85	30.05	29.90	29.28	28.38	28.43	28.48	28.30	27.95	26.95
Dubai(b)	27.75	27.60	27.85	28.03	28.08	28.05	27.50	27.18	27.35	27.33	27.20	26.53
Forcados(c)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	28.35	28.50	28.50	29.05	28.00	27.40
ANS(d)	28.35	28.50	29.68	29.53	29.30	29.38	28.48	28.70	28.70	28.13	27.95	26.33
WTI(e)	29.73	29.73	30.73	30.73	30.55	30.08	28.83	29.23	29.28	28.83	28.33	26.35
1985												
Brent	27.05	28.30	27.75	28.00	26.40	26.25	26.30	27.10	27.20	28.15	29.60	25.85
Dubai	27.45	27.25	27.13	26.75	25.53	25.45	25.53	26.25	26.08	26.80	26.85	26.55
Forcados	27.35	28.55	28.25	28.15	26.80	26.45	26.43	27.35	27.95	28.85	30.15	26.85
ANS	25.95	28.28	28.35	28.50	26.90	25.85	26.03	27.08	27.18	27.43	29.05	25.58
WTI	25.95	27.78	28.33	29.13	27.83	27.33	27.33	28.03	27.93	29.33	30.98	27.23
1986												
Brent	23.25	17.00	13.30	12.55	14.25	12.10	9.30	14.70	14.55	13.50	15.15	15.75
Dubai	23.70	14.65	11.30	10.68	11.48	10.40	7.15	12.95	14.30	13.15	14.05	14.35
Forcados	25.85	17.35	14.10	13.35	14.68	12.00	9.05	14.45	14.30	13.10	14.50	15.80
ANS	23.95	15.15	12.73	11.85	13.93	12.05	10.30	13.98	13.53	12.93	14.43	15.23
WTI	25.18	16.03	12.73	12.68	15.68	13.68	12.05	15.83	15.08	14.38	15.68	16.13
1987												
Brent	18.83	17.40	17.88	17.58	18.80	18.75	19.80	19.20	18.30	18.75	17.95	16.95
Dubai	17.40	16.77	16.87	16.98	17.00	17.25	17.60	17.25	16.90	16.95	16.45	15.10
Forcados	18.85	17.75	17.98	17.53	18.65	18.75	19.80	19.15	18.35	18.90	18.05	16.15
ANS	18.60	17.05	17.75	17.38	18.75	18.85	20.05	19.15	18.30	18.55	17.40	14.65
WTI	19.13	17.83	18.38	17.98	19.55	19.85	21.55	20.55	19.60	19.75	18.90	16.65
1988												
Brent	16.55	15.90	14.25	16.90	16.55	15.60	14.35	14.95	13.70	13.35	13.00	15.15
Dubai	15.25	15.10	12.90	15.00	15.00	13.75	12.45	13.05	11.90	11.15	10.35	12.80
Forcados	16.70	15.90	14.25	16.85	16.50	15.55	14.25	14.90	13.40	13.45	13.05	15.75
ANS	15.25	14.95	13.90	16.20	15.55	14.80	13.80	14.25	13.45	12.85	11.75	14.50
WTI	16.90	16.75	15.65	18.25	17.50	16.55	14.85	15.55	14.90	14.90	14.20	16.35
1989												
Brent	17.10	15.85	18.50	19.30	18.30	16.50	17.75	17.05	18.00	19.25	18.60	19.45
Dubai	14.40	14.15	16.20	17.00	15.45	14.70	15.45	15.00	15.75	16.40	15.95	16.90
Forcados	17.85	16.50	19.15	19.95	19.10	16.30	17.40	16.80	18.20	19.55	18.85	20.05
ANS	16.95	15.95	17.75	19.55	17.40	17.40	17.45	16.70	17.30	18.30	17.90	19.20
WTI	18.85	17.40	19.75	20.65	20.05	20.70	20.35	18.65	19.95	20.60	19.65	20.65
1990												
Brent	20.35	20.11	18.38	16.04	17.99	15.65	17.39	26.53	33.10	39.33	31.35	26.80
Dubai	16.98	16.59	15.81	13.49	15.32	13.40	14.91	24.05	28.55	34.48	26.99	22.15
Forcados	21.70	20.39	18.28	15.35	17.30	14.83	16.79	27.33	33.95	40.18	31.85	27.55
ANS	19.81	20.69	18.18	14.62	16.59	14.48	15.91	25.80	31.16	34.85	28.31	24.68
WTI	22.36	22.89	20.05	17.77	19.71	17.07	18.36	26.52	31.71	39.35	31.16	26.53

See notes and sources at end of table

Section VI
Table 14a

Spot Prices for Selected World Crude Oils
(Mid-month--Dollars per Barrel)

Crude/Type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1991												
Brent	28.65	17.30	18.43	20.20	19.27	17.75	19.53	19.28	20.55	22.72	21.78	18.38
Dubai	24.10	13.08	14.19	15.55	16.00	15.39	16.23	16.22	18.19	19.21	18.85	14.99
Forcados	28.85	18.00	18.18	19.52	18.52	17.25	19.36	19.41	21.10	23.37	22.45	18.98
ANS	26.40	15.43	17.86	19.55	17.72	17.03	18.36	18.17	18.97	20.90	19.53	16.73
WTI	30.00	20.68	19.86	21.48	21.02	19.65	21.46	21.37	21.82	23.89	22.78	19.71

(a) Brent is from the North Sea, United Kingdom.
(b) Dubai from Dubai, part of United Arab Emirates.
(c) Forcados from Nigeria.
(d) ANS (Alaskan North Slope) from the United States.
(e) WTI (West Texas Intermediate) from the United States.

SOURCE: Platt's Oilgram Price Report.

Section VI
Table 15

Historical Average U.S. Gasoline Prices: 1918-1946
(Cents per Gallon)

Year	Service Station Price (Excluding Tax)	State and Federal Taxes	Service Station Price (Including Tax)
1918	25.12	–	25.12
1919	25.41	0.06	25.47
1920	29.74	0.09	29.83
1921	26.11	0.20	26.31
1922	24.82	0.38	25.20
1923	21.06	0.91	21.97
1924	19.47	1.48	20.95
1925	20.09	2.11	22.20
1926	20.97	2.41	23.38
1927	18.28	2.81	21.09
1928	17.90	3.04	20.94
1929	17.92	3.50	21.42
1930	16.16	3.79	19.95
1931	12.98	4.00	16.98
1932	13.30	4.63	17.93
1933	12.41	5.41	17.82
1934	13.64	5.21	18.85
1935	13.55	5.29	18.84
1936	14.10	5.35	19.45
1937	14.59	5.40	19.99
1938	14.07	5.44	19.51
1939	13.31	5.44	18.75
1940	12.75	5.66	18.41
1941	13.30	5.93	19.23
1942	14.46	5.97	20.43
1943	14.56	5.97	20.53
1944	14.62	5.97	20.59
1945	14.48	6.02	20.50
1946	14.69	6.08	20.77

SOURCE: Texaco, Inc.

BASIC PETROLEUM DATA BOOK

SECTION VII. DEMAND

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Estimated World Demand for Refined Petroleum Products by Area
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Europe	Subtotal	Communist Nations	USSR/ E. Europe(a)	Total World
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	NA	NA	N.A.
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	NA	NA	N.A.
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	NA	NA	N.A.
1953	2,776,778	163,237	328,243	3,268,258	57,145	75,196	204,607	550,652	4,155,858	NA	NA	N.A.
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	NA	NA	N.A.
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	NA	NA	N.A.
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	286,546	836,671	5,136,104	NA	NA	N.A.
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	NA	NA	N.A.
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	NA	NA	N.A.
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	NA	7,229,097
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	NA	7,818,752
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	NA	8,424,782
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	NA	9,097,773
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	NA	9,835,302
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	NA	10,573,703
1965	4,202,039	416,873	766,617	5,385,529	285,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	NA	11,385,224
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	NA	12,251,156
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	NA	12,992,982
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	NA	14,252,325
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	NA	15,587,588
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	NA	16,681,650
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	2,622,268	NA	17,698,723
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	NA	18,744,793
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	NA	20,425,752
1974	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,599	16,755,836	3,034,212	NA	19,790,048
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	NA	19,343,365
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	NA	21,175,836
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	NA	22,242,275
1978	6,879,017	633,868	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	NA	22,964,248
1979	6,757,077	698,975	1,622,425	9,078,477	702,625	496,400	4,100,775	5,347,250	19,725,527	NA	4,029,600	23,755,127
1980	6,242,445	671,510	1,689,090	8,603,045	739,320	530,700	3,903,390	4,974,950	18,751,405	NA	4,172,400	22,923,805
1981	5,861,058	642,400	1,700,900	8,204,358	777,450	556,625	3,819,725	4,666,525	18,024,683	NA	4,148,225	22,172,908
1982	5,582,938	571,225	1,739,225	7,893,388	799,350	587,650	3,677,375	4,449,350	17,407,113	NA	4,095,300	21,502,413
1983	5,559,364	538,375	1,708,200	7,805,939	885,125	594,950	3,690,150	4,358,100	17,334,264	NA	4,024,125	21,358,389
1984	5,755,575	521,550	1,700,070	7,977,195	929,640	596,580	3,833,850	4,398,250	17,735,515	NA	4,040,640	21,776,155
1985	5,740,143	543,850	1,695,425	7,979,418	978,200	629,625	3,806,950	4,330,725	17,724,918	NA	4,042,375	21,767,293
1986	5,942,429	538,375	1,735,575	8,216,379	970,900	622,325	3,991,275	4,504,100	18,304,979	NA	4,086,175	22,391,154
1987	6,082,742	552,975	1,819,525	8,455,242	987,325	646,050	4,113,550	4,513,225	18,715,392	NA	4,069,750	22,785,142
1988	6,325,692	581,940	1,855,620	8,763,252	1,026,630	666,120	4,437,750	4,571,625	19,465,377	NA	4,046,130	23,511,507
1989	6,323,681	605,900	1,921,725	8,851,306	1,065,800	667,950	4,730,400	4,566,150	19,881,606	NA	3,998,575	23,880,181

See notes and sources at end of table

Estimated World Demand for Refined Petroleum Products by Area
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Europe	Subtotal	Communist Nations	USSR/ E. Europe(a)	Total World
1990	6,200,801	589,475	1,971,000	8,761,276	1,107,775	717,225	4,964,000	4,761,425	20,311,701	NA	3,564,225	23,875,926

NA = Not Available

(a) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1979, all countries are grouped by geographic region, rather than political ideology.

SOURCE: 1950-1958: U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1974: U.S. Bureau of Mines, International Petroleum Annual
1975-1979: U.S Energy Information Administration, International Energy Annual
1979-1990: United States: U.S. Energy Information Administration, Petroleum Supply Annual
Rest of World: BP Statistical Review of World Energy

Section VII
Table 2

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

Year	Production Crude Oil	Production Lease Con-densate	Production NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1947	5,087	(f)	362	437	2	5,888	93	12	5,993	(14)	6,007	69	451	5,487
1948	5,520	(f)	401	514	1	6,436	84	8	6,528	293	6,235	84	368	5,783
1949	5,046	(f)	430	645	1	6,123	42	2	6,167	- 8	6,175	42	327	5,806
1950	5,407	(f)	499	850	-	6,756	98	2	6,856	- 56	6,912	51	305	6,556
1951	6,158	(f)	561	844	1	7,564	49	7	7,620	101	7,519	32	422	7,065
1952	6,256	(f)	611	952	1	7,820	20	7	7,847	108	7,739	17	432	7,290
1953	6,458	(f)	654	1,034	1	8,147	9	20	8,176	142	8,034	24	402	7,608
1954	6,342	(f)	691	1,052	1	8,086	7	23	8,117	- 29	8,146	27	355	7,764
1955	6,807	(f)	771	1,248	1	8,827	9	34	8,870	--	8,870	38	368	8,464
1956	7,151	(f)	800	1,436	1	9,388	8	43	9,439	179	9,260	47	430	8,783
1957	7,170	(f)	808	1,574	1	9,553	18	42	9,613	167	9,446	51	568	8,827
1958	6,710	(f)	808	1,700	1	9,218	N.A.	64	9,282	(140)	9,422	29	276	9,117
1959	7,054	(f)	879	1,780	1	9,713	N.A.	86	9,799	+	51	11	211	9,526
1960	7,035	(f)	929	1,815	1	9,780	N.A.	146	9,926	- 83	10,009	9	202	9,797
1961	7,183	(f)	991	1,917	-	10,091	N.A.	179	10,270	111	10,159	9	174	9,976
1962	7,332	(f)	1,021	2,082	-	10,435	N.A.	175	10,610	32	32	9	166	10,400
1963	7,542	(f)	1,098	2,123	-	10,763	N.A.	202	10,965	3	10,962	10	208	10,743
1964	7,614	(f)	1,154	2,259	-	11,027	N.A.	219	11,246	10	11,236	10	202	11,023
1965	7,804	(f)	1,210	2,468	-	11,482	N.A.	220	11,702	(8)	11,710	10	187	11,512
1966	8,295	(f)	1,284	2,573	-	12,152	N.A.	245	12,397	104	12,293	10	198	12,084
1967	8,810	(f)	1,409	2,537	-	12,757	N.A.	292	13,049	173	12,876	9	307	12,560
1968	8,660	436	1,504	2,840	9	13,448	20	319	13,787	152	13,635	11	231	13,393
1969	8,778	460	1,590	3,166	12	14,005	- 7	335	14,333	- 48	14,381	12	233	14,137
1970	9,180	457	1,660	3,419	17	14,733	(21)	359	15,071	103	14,968	12	259	14,697
1971	9,032	431	1,693	3,926	17	15,098	41	382	15,521	71	15,449	12	224	15,213
1972	8,998	443	1,744	4,741	28	15,954	28	388	16,370	(232)	16,602	13	222	16,367
1973	8,784	424	1,738	6,256	30	17,232	3	3	17,688	135	17,552	13	231	17,308
1974	8,375	399	1,688	6,112	36	16,610	(25)	480	17,065	179	16,886	13	221	16,653
1975	8,007	367	1,633	6,056	38	16,101	17	460	16,578	32	16,545	13	209	16,322
1976	7,776	355	1,603	7,313	38	17,086	77	479	17,642	- 58	17,698	14	223	17,461
1977	7,875	370	1,618	8,787	50	18,700	- 6	524	19,218	529	18,689	16	243	18,431
1978	8,353	355	1,567	8,202	53	18,530	(57)	496	18,969	(257)	19,226	17	362	18,847
1979	8,181	371	1,584	8,389	44	18,572	(11)	527	19,088	107	18,981	16	472	18,513
1980	8,210	386	1,573	6,865	44	17,078	34	597	17,709	94	17,615	28	544	17,056
1981	8,177	395	1,609	5,740	50	15,971	83	508	16,562	(176)	16,738	5	595	16,058
1982	8,262	387	1,550	4,948	53	15,200	71	531	15,802	(321)	16,123	3	815	15,296
1983	8,688	(f)	1,559	4,817	53	15,117	114	488	15,719	(254)	15,973	2	739	15,231
1984	8,879	(f)	1,630	5,240	45	15,794	185	553	16,532	85	16,447	2	722	15,726

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

Year	Production			Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
	Crude Oil	Lease Con-densate	NGL's											
1985	8,971	(f)	1,609	4,949	55	15,584	145	557	16,286	(220)	16,506	1	781	15,726
Jan.	8,740	(f)	1,628	4,192							16,902	1	792	16,109
Feb.	9,025	(f)	1,623	3,815							16,979	1	857	16,121
Mar.	9,095	(f)	1,600	4,625							16,068	1	694	15,373
Apr.	9,043	(f)	1,582	5,208							16,237	1	764	15,472
May	9,132	(f)	1,594	5,554							16,210	1	705	15,504
Jun.	9,022	(f)	1,597	4,774							16,176	1	692	15,483
Jul.	8,949	(f)	1,568	4,724							16,110	1	675	15,434
Aug.	8,803	(f)	1,594	4,602							16,809	0	749	16,060
Sep.	8,954	(f)	1,575	4,899							15,905	0	806	15,099
Oct.	8,970	(f)	1,610	5,101							16,634	0	690	15,944
Nov.	8,902	(f)	1,660	6,063							16,539	0	1,036	15,503
Dec.	9,030	(f)	1,680	5,757							17,537	1	925	16,611
1986	8,680	(f)	1,551	6,176	58	16,465	139	616	17,220	152	17,068	0	785	16,283
Jan.	9,137	(f)	1,711	5,522							16,948	1	859	16,088
Feb.	9,173	(f)	1,696	4,652							17,062	0	876	16,186
Mar.	9,013	(f)	1,604	4,653							17,008	0	732	16,276
Apr.	8,864	(f)	1,523	5,376							16,795	0	850	15,945
May	8,838	(f)	1,543	6,364							16,717	0	724	15,993
Jun.	8,623	(f)	1,504	6,784							16,691	0	642	16,049
Jul.	8,660	(f)	1,507	6,890							16,992	0	685	16,307
Aug.	8,374	(f)	1,445	7,117							17,486	0	868	16,618
Sep.	8,328	(f)	1,468	7,043							16,623	0	714	15,909
Oct.	8,419	(f)	1,477	6,390							17,433	0	831	16,602
Nov.	8,412	(f)	1,569	6,547							17,042	0	821	16,221
Dec.	8,352	(f)	1,571	6,652							17,951	0	820	17,131
1987	8,349	(f)	1,595	6,605	64	16,613	145	639	17,397	(39)	17,436	0	764	16,665
Jan.	8,480	(f)	1,582	6,261							17,388	1	703	16,684
Feb.	8,389	(f)	1,618	5,940							17,885	0	977	16,908
Mar.	8,464	(f)	1,598	5,699							16,886	1	720	16,165
Apr.	8,498	(f)	1,590	5,854							17,394	0	870	16,524
May	8,336	(f)	1,585	5,981							16,692	0	666	16,026
Jun.	8,279	(f)	1,578	6,705							17,499	0	669	16,830
Jul.	8,251	(f)	1,582	7,512							17,793	0	680	17,113
Aug.	8,210	(f)	1,571	7,391							17,010	0	664	16,346
Sep.	8,205	(f)	1,582	7,114							17,465	0	795	16,670
Oct.	8,364	(f)	1,602	7,011							17,587	0	646	16,941
Nov.	8,397	(f)	1,637	6,971							17,080	0	737	16,343
Dec.	8,318	(f)	1,621	6,765							18,502	0	1,057	17,445

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

Year	Production			Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
	Crude Oil	Lease Condensate	NGL's											
1988	8,140	(f)	1,625	7,351	53	17,169	196	655	18,020	(79)	18,099	0	815	17,284
Jan.	8,250	(f)	1,579	7,114							18,288	0	885	17,403
Feb.	8,374	(f)	1,605	7,207							18,624	0	864	17,760
Mar.	8,374	(f)	1,636	6,921							18,446	0	834	17,612
Apr.	8,288	(f)	1,618	7,192							17,237	0	676	16,561
May	8,229	(f)	1,627	7,447							17,011	0	814	16,197
Jun	8,170	(f)	1,616	7,169							17,997	0	938	17,059
Jul	8,040	(f)	1,618	7,255							17,522	1	826	16,695
Aug.	8,079	(f)	1,616	7,360							18,296	0	814	17,482
Sep.	7,895	(f)	1,621	7,422							17,745	0	673	17,072
Oct.	8,023	(f)	1,661	7,787							18,312	0	732	17,580
Nov.	8,023	(f)	1,666	7,625							18,337	0	717	17,620
Dec.	7,942	(f)	1,634	7,700							19,373	0	1,008	18,365
1989	7,613	(f)	1,546	8,005	60	17,224	200	661	18,085	(99)	18,184	0	859	17,325
Jan.	7,937	(f)	1,664	8,190							18,030	0	761	17,269
Feb.	7,788	(f)	1,607	7,948							18,795	0	875	17,920
Mar.	7,575	(f)	1,650	7,381							18,849	0	860	17,989
Apr.	7,772	(f)	1,674	8,019							17,434	0	810	16,624
May	7,816	(f)	1,620	7,701							17,337	0	791	16,546
Jun.	7,624	(f)	1,507	7,922							18,472	0	975	17,497
Jul.	7,444	(f)	1,541	8,294							17,233	0	780	16,453
Aug.	7,544	(f)	1,504	8,528							18,327	0	967	17,360
Sep.	7,548	(f)	1,480	7,943							17,451	1	655	16,795
Oct.	7,453	(f)	1,478	8,264							18,095	0	791	17,304
Nov.	7,536	(f)	1,483	8,300							18,268	0	975	17,311
Dec.	7,337	(f)	1,343	7,567							19,925	0	1,067	18,858
1990	7,355	(f)	1,559	7,991	78	16,983	258	711	17,952	107	17,845	0	857	16,988
Jan.	7,546	(f)	1,541	9,173							17,673	0	709	16,964
Feb.	7,497	(f)	1,570	8,070							17,997	0	822	17,175
Mar.	7,433	(f)	1,526	7,921							17,967	0	880	17,087
Apr.	7,407	(f)	1,493	7,820							17,539	0	761	16,778
May	7,328	(f)	1,502	8,745							17,605	0	690	16,915
Jun.	7,106	(f)	1,458	8,248							17,968	0	803	17,165
Jul.	7,173	(f)	1,484	9,048							17,780	0	696	17,084
Aug.	7,287	(f)	1,575	8,549							18,900	0	850	18,050
Sep.	7,224	(f)	1,597	7,361							17,359	0	847	16,512
Oct.	7,542	(f)	1,667	6,717							17,883	0	949	16,934
Nov.	7,387	(f)	1,690	7,003							17,780	0	1,085	16,695
Dec.	7,338	(f)	1,604	6,439							17,681	0	1,187	16,494

See notes and sources at end of table

Section VII
Table 2c

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production													
Year	Crude Oil	Lease Con-densate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1991(p)	7,373	(f)	1,651	7,576	80	16,680	234	700	17,614	-26	17,642	0	1,001	16,641
Jan.	7,418	(f)	1,635	7,066							18,081	0	1,199	16,882
Feb.	7,548	(f)	1,690	6,844							17,725	0	1,441	16,284
Mar.	7,481	(f)	1,670	6,819							17,613	0	1,186	16,427
Apr.	7,467	(f)	1,656	7,374							16,840	0	737	16,103
May	7,368	(f)	1,647	8,496							17,247	0	1,149	16,098
Jun.	7,282	(f)	1,616	8,177							17,685	0	921	16,764
Jul.	7,326	(f)	1,608	7,714							17,873	0	963	16,910
Aug.	7,272	(f)	1,617	8,622							17,970	0	837	17,133
Sep.	7,332	(f)	1,609	7,745							17,489	0	785	16,704
Oct.	7,409	(f)	1,673	7,396							17,812	0	918	16,894
Nov.	7,307	(f)	1,706	7,559							17,600	0	926	16,674
Dec.	7,281	(f)	1,689	7,313							18,312	0	1,213	17,099

(a) Excludes oil imported to the strategic petroleum reserve.

(b) Includes benzol, other hydrocarbons, and hydrogen.

(c) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968 prior years include adjustments where available.

(d) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply.

(e) Data do not add due to independent rounding

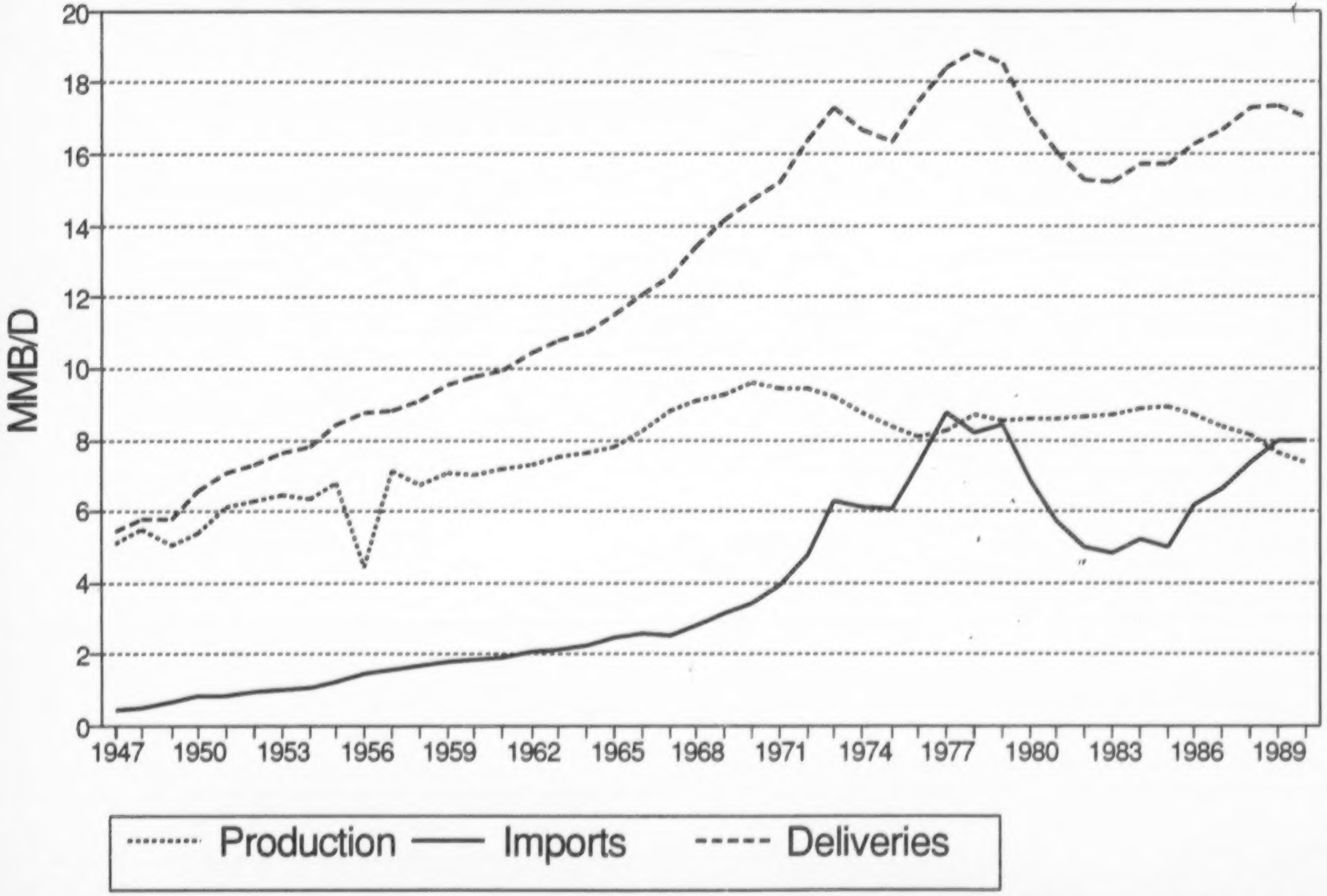
(f) Separate data available only from 1968 to 1982. Other years, included with crude oil.

(p) Preliminary

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1975-1980: Energy Information Administration, Annual Petroleum Statements
1981-1991: Energy Information Administration, Petroleum Supply Annual

Section VII
Table 2d

U.S. CRUDE OIL PRODUCTION, PETROLEUM IMPORTS AND DELIVERIES



Source: US Department of Energy, US Bureau of Mines

Section VII
Table 3

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1947	2,306	1	2,307	92,303	-1	2,308	130	2,178
1948	2,513	1	2,514	103,756	32	2,482	102	2,380
1949	2,632	-	2,632	111,443	21	2,611	108	2,503
1950	2,806	-	2,806	116,769	14	2,792	68	2,724
1951	3,126	1	3,127	135,306	25	3,102	110	2,992
1952	3,219	4	3,223	135,509	1	3,222	99	3,123
1953	3,470	1	3,471	157,872	64	3,407	104	3,303
1954	3,456	-	3,456	155,400	-7	3,463	94	3,369
1955	3,764	1	3,765	165,433	27	3,738	95	3,643
1956	3,904	4	3,908	187,271	59	3,849	97	3,752
1957	3,940	8	3,948	196,776	26	3,922	106	3,816
1958	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959(b)	4,079	36	4,115	187,613	-	4,115	46	4,069
1960	4,160	27	4,187	194,774	20	4,167	37	4,130
1961	4,199	29	4,228	195,830	3	4,225	25	4,200
1962	4,338	38	4,376	190,138	16	4,360	18	4,342
1963	4,452	44	4,496	190,937	6	4,490	19	4,471
1964	4,539	29	4,568	193,633	21	4,547	17	4,530
1965	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,911	43	4,954	194,177	30	4,924	11	4,913
1967	5,057	42	5,099	207,980	37	5,062	14	5,048
1968	5,301	59	5,360	211,526	10	5,350	6	5,344
1969	5,557	62	5,619	217,392	16	5,603	7	5,596
1970	5,768	67	5,835	214,348	-8	5,843	4	5,839
1971	6,034	59	6,093	223,771	25	6,068	5	6,063
1972	6,339	68	6,407	217,149	-18	6,425	2	6,423
1973	6,580	132	6,712	213,417	-11	6,723	5	6,718
1974	6,404	204	6,608	221,881 (c)	23	6,585	3	6,582
1975	6,558	184	6,742	238,002	27	6,715	2	6,713
1976	6,877	131	7,008	234,272	-10	7,018	4	7,014
1977	7,072	218	7,290	257,623	71	7,217	2	7,215
1978	7,207	190	7,397	241,002	-55	7,453	2	7,451
1979	7,158	181	7,339	239,919	-2	7,341	--	7,341
1980	6,849	140	6,989	264,205	66	6,923	--	6,923
1981	6,437	157	6,594	256,425 (d)	-27	6,621	2	6,619
1982	6,362	197	6,559	246,935	-26	6,584	20	6,564
1983	6,365	248	6,613	225,042	-45	6,658	10	6,648
1984	6,478	299	6,777	246,307	54	6,723	6	6,717

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1985	6,441	381	6,822	225,148	-43	6,865	10	6,858
Jan.	5,943	204	6,147	236,571	-224	6,372	2	6,370
Feb.	5,937	348	6,285	227,837	-325	6,610	2	6,607
Mar.	6,096	481	6,577	221,706	-117	6,694	3	6,690
Apr.	6,369	494	6,863	217,664	-135	6,998	11	6,987
May	6,589	480	7,069	217,395	-27	7,096	8	7,088
Jun.	6,807	396	7,203	220,825	171	7,032	7	7,025
Jul.	6,825	426	7,251	228,977	190	7,061	18	7,043
Aug.	6,849	305	7,154	224,116	-128	7,282	4	7,277
Sep.	6,328	314	6,642	225,565	-23	6,665	6	6,658
Oct.	6,380	324	6,704	216,183	-238	6,942	19	6,924
Nov.	6,505	410	6,915	219,506	110	6,805	17	6,790
Dec.	6,669	386	7,055	225,148	219	6,836	18	6,818
1986	6,784	326	7,110	235,490	11	7,099	33	7,066
Jan.	6,542	332	6,874	240,680	347	6,527	6	6,522
Feb.	6,333	334	6,667	246,139	167	6,500	11	6,489
Mar.	6,082	224	6,306	221,219	-697	7,003	21	6,983
Apr.	6,528	291	6,819	209,801	-341	7,160	23	7,138
May	7,126	471	7,597	222,753	447	7,150	9	7,141
Jun.	7,137	392	7,529	232,754	267	7,262	18	7,244
Jul.	6,994	337	7,331	226,374	-187	7,518	47	7,472
Aug.	7,136	303	7,439	224,160	-76	7,515	43	7,473
Sep.	6,956	304	7,260	236,700	293	6,967	40	6,926
Oct.	6,646	322	6,968	225,153	-370	7,338	61	7,278
Nov.	6,917	280	7,197	232,201	198	6,999	96	6,902
Dec.	6,982	320	7,302	235,490	112	7,190	24	7,166
1987	6,866	384	7,250	228,770	-15	7,266	35	7,231
Jan.	6,738	394	7,132	253,723	533	6,598	44	6,554
Feb.	6,387	310	6,697	252,768	-143	6,840	22	6,818
Mar.	6,588	364	6,952	250,466	-57	7,010	20	6,990
Apr.	6,867	374	7,241	243,932	-142	7,383	42	7,341
May	7,016	354	7,370	236,983	-169	7,538	48	7,490
Jun.	7,124	385	7,509	232,608	-105	7,614	46	7,568
Jul.	7,070	453	7,523	228,572	-119	7,643	33	7,610
Aug.	6,962	396	7,358	228,707	-29	7,387	19	7,368
Sep.	6,954	421	7,375	232,075	115	7,260	30	7,230
Oct.	6,694	356	7,050	220,517	-301	7,351	21	7,330
Nov.	6,923	484	7,407	227,624	206	7,201	32	7,169
Dec.	7,036	320	7,356	228,770	29	7,326	59	7,267

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1988	6,981	406	7,387	230,771	2	7,385	22	7,363
Jan.	6,751	357	7,108	242,801	385	6,724	8	6,716
Feb.	6,753	397	7,150	243,751	70	7,079	18	7,061
Mar.	6,737	349	7,086	233,949	-281	7,367	18	7,349
Apr.	6,930	399	7,329	228,901	-144	7,473	18	7,455
May	6,881	440	7,321	228,253	-43	7,364	28	7,336
Jun.	7,008	429	7,437	212,076	-471	7,908	59	7,849
Jul.	7,191	482	7,673	217,388	147	7,527	12	7,515
Aug.	7,241	494	7,735	222,116	135	7,599	15	7,584
Sep.	6,976	444	7,420	223,441	-28	7,448	16	7,432
Oct.	6,884	352	7,236	219,910	-74	7,309	13	7,296
Nov.	7,080	451	7,531	223,400	117	7,415	15	7,400
Dec.	7,328	278	7,606	230,771	198	7,410	45	7,365
1989	6,987	370	7,357	215,670	-35	7,391	39	7,352
Jan.	6,956	353	7,309	250,809	508	6,801	33	6,768
Feb.	6,670	425	7,095	249,860	-64	7,159	24	7,135
Mar.	6,634	382	7,016	232,629	-473	7,489	43	7,446
Apr.	6,830	370	7,200	229,076	-33	7,233	46	7,187
May	6,923	355	7,278	225,202	-161	7,439	31	7,408
Jun.	7,306	386	7,692	218,482	-174	7,866	60	7,806
Jul.	7,388	384	7,772	231,061	390	7,382	57	7,325
Aug.	7,187	360	7,547	222,677	-264	7,815	58	7,757
Sep.	7,101	321	7,422	228,763	124	7,298	31	7,267
Oct.	6,873	389	7,262	224,739	-90	7,352	29	7,323
Nov.	7,071	406	7,477	225,891	79	7,398	18	7,380
Dec.	6,900	306	7,206	215,670	-259	7,465	37	7,428
1990	6,982	342	7,324	221,537	9	7,314	55	7,259
Jan.	6,895	417	7,312	238,382	618	6,693	31	6,662
Feb.	7,011	411	7,422	247,108	168	7,255	53	7,202
Mar.	6,633	270	6,903	229,240	-504	7,408	45	7,363
Apr.	6,797	328	7,125	224,877	-45	7,172	28	7,144
May	6,638	585	7,223	219,508	-186	7,409	25	7,384
Jun.	7,130	376	7,506	214,613	-95	7,602	52	7,550
Jul.	7,264	432	7,696	219,963	127	7,569	41	7,528
Aug.	7,360	313	7,673	211,646	-230	7,904	77	7,827
Sep.	7,299	254	7,553	230,582	512	7,041	103	6,938
Oct.	6,899	192	7,091	221,821	-247	7,338	90	7,248
Nov.	6,962	259	7,221	219,141	-105	7,327	66	7,261
Dec.	6,903	264	7,167	221,537	118	7,048	53	6,995

See notes and sources at end of table

Section VII
Table 3c

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1991(p)	6,999	297	7,296	220,829	-1	7,298	82	7,216
Jan.	6,649	227	6,876	229,306	168	6,709	50	6,659
Feb.	6,592	106	6,698	223,889	-228	6,926	102	6,824
Mar.	6,658	235	6,893	213,185	-271	7,164	97	7,067
Apr.	6,760	371	7,131	208,379	-81	7,212	53	7,159
May	7,090	528	7,618	211,281	58	7,559	59	7,500
Jun.	7,379	372	7,751	216,472	159	7,592	99	7,493
Jul.	7,312	232	7,544	210,894	-160	7,704	122	7,582
Aug.	7,282	385	7,667	210,886	-25	7,693	98	7,595
Sep.	7,070	321	7,391	218,332	210	7,180	63	7,117
Oct.	6,768	236	7,004	205,495	-349	7,352	58	7,294
Nov.	7,031	318	7,349	210,845	222	7,127	104	7,023
Dec.	7,370	216	7,586	220,829	271	7,316	79	7,237

(a) Includes motor and aviation gasoline.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels.
(d) U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year end 1980 stocks were 265,802 thousand barrels. This figure was used to compute the 1981 stock change.
(e) Includes blending components.
(f) Totals may not add due to independent rounding.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies.

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1964(a)	4,399	29	4,428	185,766	23	4,405	2	4,403
1965	4,537	27	4,564	174,717	-30	4,594	1	4,593
1966	4,798	43	4,841	186,393	32	4,810	2	4,808
1967	4,956	42	4,998	200,055	37	4,961	3	4,958
1968	5,215	59	5,274	204,496	12	5,261	1	5,260
1969	5,484	62	5,546	211,199	18	5,528	2	5,526
1970	5,714	67	5,781	209,255	-5	5,786	1	5,785
1971	5,984	59	6,043	219,352	28	6,015	1	6,014
1972	6,292	68	6,360	212,894	-18	6,378	1	6,377
1973	6,535	134	6,669	209,478	-9	6,678	4	6,674
1974	6,360	204	6,564	218,410 (b)	24	6,540	2	6,538
1975	6,520	184	6,704	234,978	28	6,676	2	6,674
1976	6,841	131	6,972	231,387	-10	6,981	3	6,978
1977	7,033	217	7,250	257,623	72	7,177	2	7,175
1978(c)	7,169	190	7,359	237,979	-54	7,413	1	7,412
1979(c)	7,120	181	7,301	237,200	-1	7,302	0	7,302
1980(c)	6,814	140	6,954	261,398	66	6,888	1	6,887
1981	6,405	157	6,562	253,001	-28	6,590	2	6,588
1982	6,338	197	6,535	235,431	-25	6,560	20	6,539
1983	6,340	247	6,587	222,434	-45	6,632	10	6,622
1984	6,453	299	6,752	243,296	54	6,698	6	6,693
1985	6,419	381	6,800	222,839	-41	6,841	10	6,831
Jan.	5,926	204	6,130	233,663	-220	6,350	2	6,348
Feb.	5,914	348	6,262	224,884	-327	6,589	2	6,587
Mar.	6,072	481	6,553	218,816	-115	6,668	3	6,664
Apr.	6,344	494	6,838	214,979	-128	6,966	11	6,956
May	6,564	480	7,044	214,875	-23	7,067	8	7,060
Jun.	6,780	396	7,176	218,344	172	7,004	7	6,997
Jul.	6,788	426	7,214	226,471	188	7,026	18	7,008
Aug.	6,814	305	7,119	221,583	-127	7,246	4	7,242
Sep.	6,299	314	6,613	223,098	-22	6,635	6	6,629
Oct.	6,356	324	6,680	213,853	-235	6,915	19	6,897
Nov.	6,480	410	6,890	217,013	104	6,786	17	6,770
Dec.	6,651	386	7,037	222,839	227	6,810	18	6,792

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1986	6,752	326	7,078	233,057	11	7,067	33	7,034
Jan.	6,522	332	6,854	238,330	347	6,507	6	6,502
Feb.	6,301	334	6,635	243,530	156	6,479	11	6,469
Mar.	6,060	224	6,284	218,756	-691	6,975	21	6,955
Apr.	6,498	291	6,789	207,454	-338	7,127	23	7,105
May	7,094	471	7,565	220,502	450	7,115	9	7,106
Jun.	7,100	392	7,492	230,480	265	7,227	18	7,209
Jul.	6,956	337	7,293	224,028	-189	7,482	47	7,436
Aug.	7,091	303	7,394	221,586	-83	7,477	43	7,435
Sep.	6,890	303	7,193	233,945	289	6,904	40	6,864
Oct.	6,616	322	6,938	222,356	-372	7,312	61	7,250
Nov.	6,895	280	7,175	229,370	200	6,975	96	6,879
Dec.	6,969	320	7,289	233,057	122	7,167	24	7,143
1987	6,841	384	7,225	226,183	-15	7,241	35	7,206
Jan.	6,714	393	7,107	251,111	528	6,579	44	6,535
Feb.	6,365	309	6,674	250,082	-144	6,818	22	6,796
Mar.	6,568	364	6,932	248,050	-51	6,984	20	6,964
Apr.	6,849	374	7,223	241,750	-133	7,356	42	7,314
May	6,991	354	7,345	234,908	-164	7,508	48	7,460
Jun.	7,089	385	7,474	230,421	-111	7,585	46	7,539
Jul.	7,042	452	7,494	226,353	-119	7,614	33	7,581
Aug.	6,932	396	7,328	226,459	-29	7,357	19	7,338
Sep.	6,921	421	7,342	229,648	107	7,235	30	7,205
Oct.	6,668	356	7,024	218,022	-302	7,326	21	7,305
Nov.	6,907	484	7,391	225,190	208	7,183	32	7,151
Dec.	7,014	320	7,334	226,183	24	7,310	59	7,251
1988	6,956	405	7,361	228,403	3	7,358	22	7,336
Jan.	6,730	357	7,087	240,268	387	6,701	8	6,693
Feb.	6,736	397	7,133	241,358	75	7,057	18	7,039
Mar.	6,715	349	7,064	231,743	-277	7,341	18	7,323
Apr.	6,907	399	7,306	226,700	-142	7,448	18	7,430
May	6,850	437	7,287	226,108	-43	7,331	28	7,303
Jun.	6,982	428	7,410	210,088	-465	7,876	59	7,817
Jul.	7,159	482	7,641	215,273	148	7,494	12	7,482
Aug.	7,209	494	7,703	220,097	131	7,571	15	7,556
Sep.	6,948	443	7,391	221,346	-28	7,420	16	7,404
Oct.	6,857	352	7,209	217,690	-75	7,284	13	7,271
Nov.	7,060	451	7,511	221,235	118	7,394	15	7,379
Dec.	7,303	277	7,580	228,403	192	7,389	45	7,344

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1989	6,963	369	7,332	213,441	-35	7,367	39	7,328
Jan.	6,937	353	7,290	248,574	512	6,778	33	6,745
Feb.	6,650	423	7,073	247,540	-70	7,143	24	7,119
Mar.	6,612	381	6,993	230,340	-471	7,464	43	7,421
Apr.	6,811	370	7,181	227,147	-22	7,203	46	7,157
May	6,894	355	7,249	223,219	-163	7,412	31	7,381
Jun.	7,275	386	7,661	216,353	-179	7,840	60	7,780
Jul.	7,360	383	7,743	228,903	390	7,353	57	7,296
Aug.	7,155	360	7,515	220,676	-260	7,775	58	7,717
Sep.	7,069	320	7,389	226,691	118	7,271	31	7,240
Oct.	6,845	389	7,234	222,456	-97	7,331	29	7,302
Nov.	7,046	406	7,452	223,609	81	7,371	18	7,353
Dec.	6,884	306	7,190	213,441	-257	7,447	37	7,410
1990	6,959	342	7,301	219,633	10	7,290	55	7,235
Jan.	6,879	417	7,296	236,261	621	6,674	31	6,643
Feb.	6,989	411	7,400	244,982	169	7,232	53	7,179
Mar.	6,613	270	6,883	227,291	-499	7,383	45	7,338
Apr.	6,775	328	7,103	222,952	-45	7,149	28	7,121
May	6,610	585	7,195	217,465	-189	7,383	25	7,358
Jun.	7,101	376	7,477	212,602	-93	7,571	52	7,519
Jul.	7,238	432	7,670	218,165	133	7,537	41	7,496
Aug.	7,326	313	7,639	209,689	-233	7,873	77	7,796
Sep.	7,274	254	7,528	228,636	511	7,017	103	6,914
Oct.	6,880	192	7,072	219,956	-244	7,316	90	7,226
Nov.	6,940	259	7,199	217,212	-108	7,307	66	7,241
Dec.	6,887	264	7,151	219,633	119	7,031	53	6,978
1991(p)	6,977	297	7,274	219,172	-1	7,275	82	7,193
Jan.	6,629	227	6,856	227,279	164	6,693	50	6,643
Feb.	6,573	106	6,679	221,860	-229	6,908	102	6,806
Mar.	6,642	235	6,877	211,287	-267	7,144	97	7,047
Apr.	6,742	371	7,113	206,640	-77	7,190	53	7,137
May	7,063	528	7,591	209,479	56	7,534	59	7,475
Jun.	7,351	371	7,722	214,615	159	7,564	99	7,465
Jul.	7,278	232	7,510	208,686	-173	7,683	122	7,561
Aug.	7,257	385	7,642	209,149	-10	7,653	98	7,555
Sep.	7,044	321	7,365	216,576	210	7,154	63	7,091
Oct.	6,746	236	6,982	203,715	-350	7,331	58	7,273
Nov.	7,018	318	7,336	209,213	227	7,109	104	7,005
Dec.	7,354	216	7,570	219,172	270	7,300	79	7,221

Section VII
Table 4c

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

(a) Data prior to 1964 is not available or a comparable basis.
(b) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.
(c) In 1981, the Department of Energy changed their methodology for calculating motor gasoline_ distillate_ and residual product supplies. Based on this raw methodology, API has reconstructed DOE data for 1978, 1979, and 1980. The stock reporting base was also altered as of January 1981. On the new basis, year-end 1980 stocks were 263,003 thousand barrels. This figure was used to compute the 1981 stock change.
(d) Includes motor gasoline blending components.
(e) Totals do not add due to independent rounding.

SOURCE: 1964-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals, and Monthlies.

Section VII
Table 5

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1947	864	12	876	51,081	-23	899	82	817
1948	1,046	7	1,053	71,429	64	989	58	931
1949	941	5	946	75,207	10	936	34	902
1950	1,100	7	1,107	71,948	-10	1,117	35	1,082
1951	1,311	5	1,316	86,619	29	1,287	62	1,225
1952	1,422	8	1,430	99,375	35	1,395	92	1,303
1953	1,452	9	1,461	111,741	35	1,426	89	1,337
1954	1,490	9	1,499	108,144	-9	1,508	66	1,442
1955	1,656	12	1,668	111,333	9	1,659	67	1,592
1956	1,825	14	1,839	133,981	62	1,777	94	1,683
1957	1,838	23	1,861	149,449	42	1,819	131	1,688
1958	1,734	41	1,775	125,101	-67	1,842	52	1,790
1959(a)	1,865	48	1,913	151,164	70	1,843	35	1,808
1960	1,830	35	1,865	138,455	-34	1,899	27	1,872
1961	1,911	47	1,958	152,018	37	1,921	19	1,902
1962	1,975	33	2,008	144,505	-21	2,029	22	2,007
1963	2,098	25	2,123	156,677	35	2,088	41	2,047
1964	2,031	32	2,063	155,846	-2	2,065	15	2,050
1965	2,099	36	2,135	155,407	-1	2,136	10	2,126
1966	2,155	38	2,193	154,096	-4	2,197	12	2,185
1967(b)	2,207	51	2,258	159,703	5	2,253	12	2,241
1968	2,299	131	2,430	173,158	37	2,393	4	2,389
1969	2,326	139	2,465	171,714	-4	2,469	3	2,466
1970	2,460	148	2,608	195,271	65	2,543	3	2,540
1971	2,503	153	2,656	190,622	-13	2,669	8	2,661
1972	2,636	181	2,817	154,319	-99	2,916	3	2,913
1973	2,822	392	3,214	196,461	115	3,101	9	3,092
1974	2,669	289	2,958	200,068 (c)	10	2,950	2	2,948
1975	2,654	155	2,809	208,833	-40	2,852	1	2,851
1976	2,924	146	3,070	185,386	-62	3,134	1	3,133
1977	3,278	250	3,528	250,295	176	3,353	1	3,352
1978(d)	3,171	173	3,344	216,463	-93	3,438	3	3,435
1979(d)	3,167	197	3,364	228,729	34	3,330	3	3,327
1980(d)	2,769	139	2,908	205,132	-64	2,972	3	2,969
1981	2,613	173	2,786	191,541	-38	2,834	5	2,829
1982	2,606	93	2,699	178,592	-35	2,745	74	2,671
1983(e)	2,456	174	2,630	140,263	-124	2,754	64	2,690
1984	2,681	272	2,953	161,072	57	2,896	51	2,845

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1985	2,687	200	2,887	143,673	-48	2,935	67	2,868
Jan.	2,631	272	2,903	142,384	-603	3,506	41	3,465
Feb.	2,503	143	2,646	121,439	-748	3,394	64	3,330
Mar.	2,267	156	2,423	99,293	-714	3,137	44	3,093
Apr.	2,490	253	2,743	96,845	-82	2,825	27	2,798
May	2,686	197	2,883	104,432	245	2,638	31	2,607
Jun.	2,647	152	2,799	109,688	175	2,624	30	2,594
Jul.	2,646	95	2,741	115,683	193	2,548	112	2,436
Aug.	2,592	81	2,673	113,755	-62	2,736	100	2,636
Sep.	2,594	222	2,816	117,367	120	2,696	121	2,575
Oct.	2,902	262	3,164	123,417	195	2,968	67	2,901
Nov.	3,103	280	3,383	139,719	543	2,839	92	2,747
Dec.	3,175	287	3,462	143,673	128	3,334	81	3,253
1986	2,798	247	3,045	155,097	31	3,014	100	2,914
Jan.	2,899	325	3,224	136,490	-232	3,456	126	3,330
Feb.	2,563	169	2,732	112,402	-860	3,592	176	3,416
Mar.	2,643	217	2,860	98,811	-438	3,299	131	3,168
Apr.	2,787	147	2,934	95,907	-97	3,032	128	2,904
May	2,858	149	3,007	98,857	95	2,911	149	2,762
Jun.	2,729	169	2,898	107,895	301	2,597	53	2,544
Jul.	2,710	313	3,023	118,905	355	2,668	75	2,593
Aug.	2,922	370	3,292	137,737	607	2,685	64	2,621
Sep.	2,865	262	3,127	152,403	489	2,638	98	2,540
Oct.	2,717	243	2,960	151,617	-25	2,986	74	2,912
Nov.	2,916	254	3,170	158,263	222	2,948	72	2,876
Dec.	2,943	339	3,282	155,097	-102	3,384	55	3,329
1987	2,730	255	2,985	134,485	-56	3,042	66	2,976
Jan.	2,760	222	2,982	141,342	-444	3,425	115	3,310
Feb.	2,556	253	2,809	123,730	-629	3,438	93	3,345
Mar.	2,422	297	2,719	109,332	-464	3,183	67	3,116
Apr.	2,552	192	2,744	100,338	-300	3,044	53	2,991
May	2,563	203	2,766	101,286	31	2,735	51	2,684
Jun.	2,689	265	2,954	104,391	104	2,851	61	2,790
Jul.	2,700	381	3,081	114,602	329	2,751	38	2,713
Aug.	2,705	222	2,927	124,735	327	2,600	47	2,553
Sep.	2,748	222	2,970	126,762	68	2,902	64	2,838
Oct.	2,780	237	3,017	120,974	-187	3,204	53	3,151
Nov.	3,036	187	3,223	128,004	234	2,988	56	2,932
Dec.	3,241	378	3,619	134,485	209	3,410	92	3,318

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1988	2,858	302	3,160	123,517	-30	3,191	69	3,122
Jan.	3,009	424	3,433	128,098	-206	3,640	82	3,558
Feb.	2,667	383	3,050	110,301	-614	3,664	107	3,557
Mar.	2,706	247	2,953	89,843	-660	3,613	74	3,539
Apr.	2,867	210	3,077	94,972	171	2,906	42	2,864
May	2,936	253	3,189	104,879	320	2,869	74	2,795
Jun.	2,893	222	3,115	110,418	185	2,930	76	2,854
Jul.	2,784	222	3,006	119,955	308	2,698	58	2,640
Aug.	2,848	279	3,127	125,689	185	2,943	70	2,873
Sep.	2,778	307	3,085	131,451	192	2,893	72	2,821
Oct.	2,827	336	3,163	128,248	-103	3,266	48	3,218
Nov.	2,910	327	3,237	128,805	19	3,217	34	3,183
Dec.	3,068	409	3,477	123,517	-171	3,647	87	3,560
1989	2,899	306	3,205	105,700	-49	3,254	97	3,157
Jan.	2,974	346	3,320	120,620	-93	3,413	110	3,303
Feb.	2,797	331	3,128	107,648	-463	3,591	164	3,427
Mar.	2,713	439	3,152	96,736	-352	3,504	76	3,428
Apr.	2,789	301	3,090	98,541	59	3,031	56	2,975
May	2,750	290	3,040	99,618	35	3,005	51	2,954
Jun.	2,809	233	3,042	99,613	1	3,041	39	3,002
Jul.	2,848	334	3,182	115,036	497	2,685	89	2,596
Aug.	2,907	254	3,161	116,306	41	3,120	154	2,966
Sep.	2,952	249	3,201	123,226	231	2,970	81	2,889
Oct.	2,906	261	3,167	121,691	-50	3,217	90	3,127
Nov.	3,063	307	3,370	119,764	-64	3,434	123	3,311
Dec.	3,266	324	3,590	105,700	-454	4,044	130	3,914
1990	2,925	278	3,203	132,204	73	3,130	109	3,021
Jan.	3,130	505	3,635	117,729	388	3,247	62	3,185
Feb.	2,753	357	3,110	111,718	-215	3,325	65	3,260
Mar.	2,657	281	2,938	98,866	-415	3,352	75	3,277
Apr.	2,803	308	3,111	99,146	9	3,102	59	3,043
May	2,874	209	3,083	102,509	108	2,975	75	2,900
Jun.	2,996	257	3,253	109,885	246	3,007	84	2,923
Jul.	3,008	236	3,244	124,979	487	2,756	30	2,726
Aug.	3,131	293	3,424	129,808	156	3,269	51	3,218
Sep.	2,968	226	3,194	136,015	207	2,987	123	2,864
Oct.	2,928	190	3,118	136,270	8	3,110	150	2,960
Nov.	2,915	238	3,153	132,407	-129	3,282	188	3,094
Dec.	2,917	239	3,156	132,204	-7	3,163	347	2,816

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand (f)
1991(p)	2,961	203	3,164	143,478	31	3,132	215	2,917
Jan.	2,851	190	3,041	112,111	-648	3,688	332	3,356
Feb.	2,867	138	3,005	101,256	-388	3,393	393	3,000
Mar.	2,862	206	3,068	98,273	-96	3,164	198	2,966
Apr.	2,822	258	3,080	102,177	130	2,950	81	2,869
May	2,924	185	3,109	107,005	156	2,953	218	2,735
Jun.	2,940	209	3,149	113,474	216	2,933	150	2,783
Jul.	2,992	153	3,145	124,256	348	2,798	149	2,649
Aug.	2,959	167	3,126	130,550	203	2,923	144	2,779
Sep.	3,054	221	3,275	139,504	298	2,976	136	2,840
Oct.	3,039	206	3,245	138,187	-42	3,288	259	3,029
Nov.	3,103	245	3,348	144,397	207	3,140	224	2,916
Dec.	3,107	252	3,359	143,478	-30	3,388	302	3,086

(a) These figures and those for subsequent years are on a 50-state basis.
(b) Production and stocks at gas processing plants are included in this and subsequent years.
(c) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change.
(d) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979, and 1980.
(e) In 1983, DOE changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised stock figures for 1982.
(f) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1947	1,301	149	1,450	47,091	--	1,450	29	1,421
1948	1,329	146	1,475	64,021	72	1,403	36	1,367
1949	1,177	206	1,383	60,193	-11	1,394	35	1,359
1950	1,180	329	1,509	40,750	-53	1,562	45	1,517
1951	1,302	327	1,629	42,853	3	1,626	80	1,546
1952	1,257	351	1,608	48,706	16	1,592	76	1,516
1953	1,248	360	1,608	49,370	2	1,606	71	1,535
1954	1,158	354	1,512	52,105	8	1,504	73	1,431
1955	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,183	445	1,628	44,491	15	1,613	76	1,537
1957	1,176	475	1,651	59,959	42	1,609	105	1,504
1958	1,025	499	1,524	59,508	-1	1,525	70	1,455
1959(a)	973	610	1,583	53,501	-18	1,601	57	1,544
1960	918	637	1,555	44,870	-24	1,579	51	1,528
1961	875	667	1,542	44,869	--	1,542	39	1,503
1962	820	724	1,544	49,996	14	1,530	35	1,495
1963	765	747	1,512	47,538	-6	1,518	42	1,476
1964	739	808	1,547	40,403	-20	1,567	52	1,515
1965	746	946	1,692	56,214	43	1,649	41	1,608
1966	733	1,032	1,765	61,196	14	1,751	35	1,716
1967	766	1,085	1,851	65,597	5	1,846	60	1,786
1968	765	1,120	1,885	67,359	5	1,880	54	1,826
1969	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	765	1,583	2,348	59,681	16	2,332	36	2,296
1972	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	988	1,853	2,841	53,480	-5	2,845	23	2,822
1974	1,083	1,587	2,670	59,694 (b)	17	2,653	14	2,639
1975	1,250	1,223	2,473	74,126	-2	2,477	15	2,462
1976	1,394	1,413	2,807	72,344	-5	2,813	12	2,801
1977	1,767	1,359	3,126	89,993	49	3,077	6	3,071
1978(c)	1,681	1,355	3,036	90,194	1	3,037	13	3,024
1979(c)	1,708	1,151	2,859	95,598	15	2,844	9	2,835
1980(c)	1,660	920	2,580	90,344	-14	2,594	33	2,561
1981	1,369	800	2,169	77,992	-37	2,206	118	2,088
1982	1,118	776	1,894	66,200	-32	1,925	209	1,716
1983(d)	852	699	1,551	48,504	-55	1,606	185	1,421
1984	891	681	1,572	53,000	12	1,559	190	1,369

See notes and sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1985	882	510	1,392	50,381	-7	1,399	197	1,202
Jan.	1,004	568	1,572	46,201	-219	1,792	312	1,480
Feb.	1,040	580	1,620	45,053	-41	1,661	295	1,366
Mar.	963	477	1,440	46,127	35	1,406	216	1,190
Apr.	912	383	1,295	46,195	2	1,293	167	1,126
May	793	394	1,187	41,397	-155	1,341	185	1,156
Jun.	702	400	1,102	39,622	-59	1,161	118	1,043
Jul.	732	437	1,169	40,507	29	1,141	83	1,058
Aug.	742	424	1,166	37,164	-108	1,274	106	1,168
Sep.	808	617	1,425	43,359	207	1,219	188	1,031
Oct.	912	541	1,453	50,418	228	1,225	184	1,041
Nov.	932	627	1,559	50,263	-5	1,565	275	1,290
Dec.	1,055	681	1,736	50,381	4	1,733	250	1,483
1986	889	669	1,558	47,437	-8	1,565	147	1,418
Jan.	940	622	1,562	48,655	-56	1,618	211	1,407
Feb.	856	604	1,460	43,048	-200	1,661	183	1,478
Mar.	813	626	1,439	39,709	-108	1,548	113	1,435
Apr.	933	545	1,478	35,910	-127	1,604	202	1,402
May	913	675	1,588	39,431	114	1,474	129	1,345
Jun.	818	712	1,530	42,767	111	1,420	43	1,377
Jul.	850	673	1,523	40,333	-75	1,598	90	1,508
Aug.	896	793	1,689	41,346	29	1,659	174	1,485
Sep.	854	641	1,495	44,006	89	1,406	110	1,296
Oct.	827	635	1,462	45,822	59	1,403	144	1,259
Nov.	975	574	1,549	46,275	15	1,534	143	1,391
Dec.	987	913	1,900	47,437	37	1,862	224	1,638
1987	885	565	1,450	47,410	--	1,450	186	1,264
Jan.	920	701	1,621	44,931	-81	1,702	198	1,504
Feb.	825	668	1,493	38.140	-243	1,736	221	1,515
Mar.	863	559	1,422	39,303	38	1,384	150	1,234
Apr.	831	476	1,307	35,890	-114	1,421	239	1,182
May	813	505	1,318	40,371	145	1,173	144	1,029
Jun.	864	481	1,345	41,356	33	1,312	105	1,207
Jul.	901	721	1,622	44,694	108	1,514	175	1,339
Aug.	882	512	1,394	45,690	32	1,361	185	1,176
Sep.	904	526	1,430	44,417	-42	1,473	177	1,296
Oct.	887	414	1,301	45,619	39	1,263	194	1,069
Nov.	928	568	1,496	49,975	145	1,351	146	1,205
Dec.	1,001	650	1,651	47,410	-83	1,734	300	1,434

See notes and sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1988	926	644	1,570	44,621	-8	1,578	200	1,378
Jan.	1,002	805	1,807	46,033	-44	1,851	190	1,661
Feb.	994	901	1,895	45,090	-33	1,927	229	1,698
Mar.	948	650	1,598	43,746	-43	1,641	165	1,476
Apr.	960	495	1,455	42,756	-33	1,488	170	1,318
May	862	432	1,294	45,662	94	1,201	263	938
Jun.	880	336	1,216	42,165	-117	1,332	249	1,083
Jul.	906	479	1,385	41,007	-37	1,423	206	1,217
Aug.	866	581	1,447	38,007	-97	1,545	225	1,320
Sep.	852	698	1,550	44,592	220	1,330	100	1,230
Oct.	852	603	1,455	42,470	-68	1,524	181	1,343
Nov.	916	785	1,701	44,003	51	1,650	146	1,504
Dec.	1,069	975	2,044	44,621	20	2,025	271	1,754
1989	954	629	1,583	43,838	-2	1,585	215	1,370
Jan.	949	909	1,858	47,232	84	1,774	151	1,623
Feb.	930	877	1,807	45,607	-58	1,865	146	1,719
Mar.	937	706	1,643	41,644	-128	1,771	220	1,551
Apr.	904	681	1,585	40,075	-52	1,637	236	1,401
May	934	538	1,472	42,473	77	1,395	276	1,119
Jun.	953	533	1,486	44,101	55	1,431	208	1,223
Jul.	862	556	1,418	42,742	-44	1,462	176	1,286
Aug.	903	501	1,404	44,541	58	1,346	225	1,121
Sep.	856	454	1,310	49,399	163	1,147	137	1,010
Oct.	1,001	583	1,584	50,935	50	1,535	243	1,292
Nov.	1,075	543	1,618	52,373	48	1,570	330	1,240
Dec.	1,140	680	1,820	43,838	-276	2,096	226	1,870
1990	950	504	1,454	48,561	13	1,440	211	1,229
Jan.	1,163	825	1,988	50,206	205	1,783	186	1,597
Feb.	1,060	663	1,723	51,218	36	1,688	214	1,474
Mar.	976	335	1,311	46,307	-158	1,469	277	1,192
Apr.	882	559	1,441	49,009	90	1,351	200	1,151
May	884	507	1,391	49,696	22	1,368	141	1,227
Jun.	926	485	1,411	46,769	-98	1,509	207	1,302
Jul.	987	536	1,523	49,000	72	1,451	171	1,280
Aug.	944	574	1,518	48,975	-1	1,518	280	1,238
Sep.	909	313	1,222	49,436	15	1,207	200	1,007
Oct.	799	383	1,182	49,349	-3	1,186	160	1,026
Nov.	846	387	1,233	50,098	25	1,208	243	965
Dec.	1,021	484	1,505	48,561	-50	1,555	259	1,296

See notes [illegible] sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1991(p)	934	448	1,382	49,899	4	1,378	226	1,152
Jan.	1,000	422	1,422	47,600	-32	1,453	320	1,133
Feb.	1,049	384	1,433	44,645	-106	1,538	299	1,239
Mar.	997	331	1,328	42,941	-55	1,384	178	1,206
Apr.	915	416	1,331	44,690	58	1,273	145	1,128
May	926	420	1,346	45,809	36	1,310	300	1,010
Jun.	933	499	1,432	43,475	-78	1,510	245	1,265
Jul.	870	419	1,289	43,357	-4	1,294	176	1,118
Aug.	925	568	1,493	45,595	72	1,421	216	1,205
Sep.	838	473	1,311	47,905	77	1,234	168	1,066
Oct.	813	438	1,251	48,124	7	1,245	217	1,028
Nov.	896	454	1,350	49,030	30	1,321	189	1,132
Dec.	1,051	547	1,598	49,899	28	1,570	264	1,306

(a) These figures and those for subsequent years are on a 50 state basis.

(b) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change.

(c) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979, and 1980.

(d) In 1983, the Department of Energy changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised figure for 1982.

(e) Totals may not add due to independent rounding.

(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Section VII
Table 7

Deliveries of Distillate and Residual Fuel Oil to Electric Utilities
(Thousands of Barrels per Day)

Year	Distillate(d)	Residual	Total	Total Fuel Oil Demand All Sectors
1947	39	167	206	2,238
1948	41	155	196	2,298
1949	34	219	253	2,261
1950	36	255	291	2,599
1951	26	193	219	2,771
1952	23	192	215	2,819
1953	19	234	253	2,872
1954	17	194	211	2,873
1955	16	208	224	3,118
1956	15	202	217	3,220
1957	15	210	225	3,192
1958	15	211	226	3,245
1959 (a)	14	225	239	3,352
1960 (b)	13	233	246	3,400
1961	11	241	252	3,405
1962	11	242	253	3,502
1963	11	251	262	3,523
1964	10	267	277	3,565
1965	10	315	325	3,734
1966	10	378	388	3,901
1967 (c)	8	434	442	4,027
1968	23	505	528	4,215
1969	33	679	712	4,444
1970	68	856	924	4,744
1971	97	1,019	1,116	4,957
1972 (e)	187	1,189	1,376	5,442
1973 (e)	214	1,396	1,610	5,914
1974 (e)	232	1,302	1,534	5,587
1975 (e)	174	1,246	1,420	5,313
1976 (e)	165	1,351	1,516	5,934
1977 (e)	210	1,560	1,770	6,423
1978 (e)	211	1,461	1,672	6,459
1979	128	1,333	1,461	6,162
1980	87	1,066	1,153	5,530
1981	50	892	942	4,917
1982	33	623	656	4,387
1983	32	560	592	4,111
1984	45	509	554	4,214
1985	34	403	437	4,070
1986	40	590	630	4,333
1987	42	498	540	4,241
1988	52	622	674	4,499
1989	70	639	709	4,527

See notes and sources at end of table

Deliveries of Distillate and Residual Fuel Oil to Electric Utilities
(Thousands of Barrels per Day)

Year	Distillate(d)	Residual	Total	Total Fuel Oil Demand All Sectors
1990	48	550	598	4,249

(a) These data include Alaska but not Hawaii.
(b) These data and those for subsequent years are on a 50-state basis.
(c) Data is for electric public utility power plants only.
(d) Beginning in 1968, these data include distillate sales for gas turbine plants.
(e) Includes kerosine jet fuel; 1972-24,000 bbls. per day; 1973-17,000 bbls. per day; 1974-14,000 bbls. per day; 1975-9,000 bbls. per day; 1976-11,600 bbls. per day; 1977-17,419 bbls. per day; 1978--12,342 bbls. per day.

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine
1976-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals
1979-1983: U.S. Energy Information Administration, Petroleum Supply Annuals
1984-1989: U.S. Energy Information Administration, Petroleum Marketing Monthly & Annual

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1962(b)	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499	1,862,659
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,603	90,489	92,064	111,594	123,995	163,070
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	857,887	933,764	998,011	1,094,225	1,201,122	1,147,782
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993	1,152,195
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,664	9,363,091	9,995,752	10,307,287	9,887,993
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,840	1,109,271	1,187,015	1,295,516	1,356,428	1,301,967
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085	1,327,308
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316	296,489
Dist. of Col.	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626	240,457
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798	4,205,193
Georgia	1,404,674	1,465,671	1,563,737	1,655,099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556	2,739,639
Hawaii	151,197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887	277,849
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	353,990	379,479	400,735	421,403	451,315	468,321	457,785
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,816	4,408,829	4,596,788	4,836,883	5,048,307	5,024,751
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,465	2,739,043
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666	1,647,054
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,184,298	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262	1,329,122
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,696	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508	1,676,588
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770	1,756,343
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231	520,051
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,367,611	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506	1,789,440
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441	2,296,921
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,537,187	4,748,355	4,565,132
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580	2,034,085
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423	1,195,373
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190	2,628,598
Montana	309,869	309,609	313,450	327,979	334,344	342,289	361,060	371,950	395,762	425,158	427,048	440,456	448,019
Nebraska	633,965	655,102	676,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846	868,296
Nevada	184,637	205,360	218,989	233,702	242,024	247,239	269,741	285,519	314,702	333,806	365,954	389,776	382,610
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937	390,559
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118	3,174,698
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,830	686,811	683,532
New York	4,068,568	4,198,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,121	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799	5,997,859
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722	2,820,286
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026	411,328
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284	5,006,097
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,157	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001	1,675,497
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689	1,187,671
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,667	4,458,007	4,768,816	4,836,463	4,813,878
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135	371,740
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,064,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738	1,456,658
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,698	420,859	439,796	464,493	474,646	456,444
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089	2,181,836
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,305,427	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539	7,099,280
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731	616,419
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662	235,325
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181	2,441,443
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314	1,666,944
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331	766,439
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977	2,145,544
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,693	233,411	246,667	256,601	279,080	293,571	294,460
TOTAL	62,531,373	64,779,104	67,663,848	70,337,126	73,638,872	76,139,326	80,772,657	85,416,084	89,405,266	93,907,352	100,068,575	104,579,479	101,855,749

See notes and sources at end of table

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	1,918,203	2,028,878	2,098,979	2,181,179	2,093,703	1,962,046	1,849,225	1,840,396	1,861,406	1,905,267	1,881,466	2,012,114	2,084,218
Alaska	193,725	214,140	204,006	209,118	219,472	201,373	212,804	235,112	221,229	248,993	267,709	256,534	242,578
Arizona	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722	1,344,438	1,341,613	1,410,904	1,489,965	1,555,905	1,635,083	1,683,355
Arkansas	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800	1,137,998	1,123,466	1,128,357	1,193,067	1,166,202	1,212,035	1,241,796
California	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050	10,842,862	10,660,534	11,032,662	11,413,578	11,656,251	12,175,654	12,543,126
Colorado	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288	1,506,429	1,513,235	1,560,776	1,514,511	1,558,918	1,592,000	1,565,700
Connecticut	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582	1,296,048	1,284,966	1,308,077	1,339,766	1,393,470	1,443,603	1,484,832
Delaware	303,545	316,973	314,070	313,277	306,489	293,851	290,581	282,463	308,772	320,247	326,204	333,247	338,285
Dist. of Col.	243,215	229,031	225,434	221,831	214,782	171,451	171,082	170,518	168,019	181,199	163,074	167,549	181,371
Florida	4,345,632	4,507,541	4,668,677	4,929,713	4,905,642	4,810,520	4,845,057	4,900,197	5,078,234	5,261,730	5,462,027	5,690,765	5,914,706
Georgia	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923	2,809,969	2,818,366	2,904,369	3,053,861	3,148,673	3,313,314	3,421,117
Hawaii	289,772	303,836	320,804	332,512	332,490	354,529	347,848	349,098	355,332	371,084	349,709	364,615	384,958
Idaho	482,462	520,640	530,225	563,708	538,740	488,333	471,054	456,063	469,377	468,332	463,502	469,394	482,202
Illinois	5,127,189	5,327,380	5,423,741	5,565,912	5,186,151	4,816,780	4,598,012	4,522,361	4,609,320	4,733,589	4,836,654	4,731,675	4,772,357
Indiana	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146	2,616,773	2,431,388	2,479,277	2,934,238	2,559,430	2,622,218	2,745,535
Iowa	1,655,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192	1,474,522	1,420,817	1,394,722	1,398,211	1,369,838	1,367,462	1,369,663
Kansas	1,378,773	1,462,586	1,433,106	1,504,662	1,406,812	1,310,568	1,268,609	1,236,159	1,240,248	1,245,120	1,234,260	1,248,854	1,265,811
Kentucky	1,743,523	1,840,476	1,869,170	1,941,387	1,868,008	1,755,397	1,729,136	1,721,620	1,734,296	1,764,567	1,736,511	1,850,343	1,865,460
Louisiana	1,830,011	1,986,865	2,076,106	2,157,919	2,158,327	2,081,328	2,103,397	2,145,094	2,151,036	2,166,617	2,132,374	2,160,554	2,062,830
Maine	536,015	567,427	575,775	586,048	541,664	517,014	497,749	505,620	519,891	530,799	548,083	582,048	606,596
Maryland	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209	1,919,423	1,888,873	1,892,434	1,959,267	1,976,290	2,027,743	2,068,369
Massachusetts	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675	2,249,956	2,235,986	2,266,746	2,340,189	2,388,603	2,458,079	2,491,662
Michigan	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036	4,014,363	3,795,814	3,680,884	4,042,348	4,086,109	4,187,028	4,287,736
Minnesota	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270	1,984,982	1,931,205	1,985,492	2,084,655	2,136,370	2,040,806	2,033,108
Mississippi	1,192,596	1,254,446	1,322,865	1,332,417	1,292,209	1,194,846	1,208,384	1,151,872	1,158,134	1,191,027	1,231,066	1,261,173	1,270,055
Missouri	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627	2,528,616	2,494,373	2,536,042	2,601,207	2,614,239	2,762,114	2,754,512
Montana	461,111	493,245	511,714	531,445	499,397	459,960	445,841	452,371	459,851	455,738	441,744	443,446	440,858
Nebraska	880,948	939,870	939,626	958,879	907,383	816,426	798,518	792,579	776,930	780,071	777,136	776,830	776,125
Nevada	409,496	434,031	464,832	509,705	500,916	500,286	508,535	490,270	489,835	504,530	509,110	535,009	567,666
New Hampshire	401,243	426,860	444,560	456,391	433,556	411,214	398,692	393,276	405,203	434,424	446,902	481,789	514,167
New Jersey	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992	3,150,798	3,172,525	3,371,871	3,358,178	3,311,078	3,524,601	3,586,002
New Mexico	708,455	760,885	779,366	821,722	793,452	746,655	742,486	744,599	740,916	764,343	783,404	800,775	821,713
New York	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549	5,674,946	5,617,353	5,491,074	6,148,506	5,941,935	5,957,386	6,168,884
North Carolina	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274	2,874,700	2,842,968	2,911,221	3,042,021	3,092,963	3,227,688	3,318,096
North Dakota	433,296	452,728	452,771	467,847	443,692	407,250	408,449	403,067	390,085	390,514	385,715	376,068	381,284
Ohio	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574	4,766,658	4,561,134	4,634,793	4,744,494	4,739,030	4,878,206	5,012,222
Oklahoma	1,743,196	1,832,255	1,881,335	1,984,458	1,897,821	1,845,259	1,922,403	1,929,207	1,907,622	1,877,793	1,890,867	1,848,704	1,772,817
Oregon	1,224,276	1,310,983	1,369,886	1,441,866	1,385,047	1,330,612	1,271,001	1,211,110	1,222,903	1,263,213	1,254,669	1,294,515	1,312,919
Pennsylvania	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328	4,474,475	4,384,130	4,370,547	4,422,335	4,429,756	4,523,848	4,590,386
Rhode Island	395,532	384,525	405,832	412,404	397,229	381,826	368,524	360,833	365,634	369,612	379,026	394,173	396,573
South Carolina	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787	1,529,196	1,515,808	1,539,188	1,601,942	1,630,720	1,700,307	1,680,761
South Dakota	501,005	474,182	489,910	497,196	458,549	423,517	403,635	393,021	389,287	389,407	387,453	394,961	392,527
Tennessee	2,367,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939	2,368,466	2,355,395	2,331,655	2,501,396	2,534,948	2,651,534	2,754,514
Texas	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499	8,149,252	8,201,687	8,393,680	8,501,979	8,899,228	9,085,634	8,865,928
Utah	646,942	680,027	714,148	761,968	730,529	734,992	768,450	734,020	725,317	854,992	755,798	766,726	764,441
Vermont	240,270	255,094	260,155	269,204	252,404	238,842	234,114	236,905	242,056	252,093	252,812	259,631	282,232
Virginia	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199	2,530,673	2,493,638	2,554,245	2,665,515	2,719,453	2,815,511	2,993,746
Washington	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513	1,872,364	1,851,127	1,919,152	2,000,333	1,912,436	2,034,097	2,215,350
West Virginia	813,024	872,009	900,930	909,773	888,849	845,242	804,632	810,848	801,736	800,672	801,431	806,401	829,349
Wisconsin	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363	2,067,800	1,982,060	2,011,843	2,022,610	2,022,990	2,061,116	2,046,604
Wyoming	319,042	343,229	361,399	388,681	381,674	373,723	375,068	359,425	338,752	358,077	332,978	328,877	313,409
TOTAL	104,516,610	109,873,935	113,102,038	116,780,787	112,678,296	106,378,366	104,248,792	102,747,065	104,231,431	108,248,222	108,876,519	111,933,927	113,930,531

See notes and sources at end of table

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1988	1989	1990
Alabama	2,072,236	2,122,111	2,120,444
Alaska	246,038	239,017	274,133
Arizona	1,708,609	1,744,554	1,694,334
Arkansas	1,272,178	1,274,999	1,262,151
California	12,900,366	13,338,831	13,304,359
Colorado	1,561,689	1,535,449	1,547,261
Connecticut	1,397,428	1,386,722	1,348,658
Delaware	347,242	349,255	346,981
Dist. of Col.	186,686	182,674	174,175
Florida	6,040,283	6,138,092	6,166,807
Georgia	3,539,769	3,573,874	3,571,616
Hawaii	376,090	392,498	388,769
Idaho	478,952	489,747	496,127
Illinois	4,971,834	4,993,663	5,253,312
Indiana	2,760,066	2,675,098	2,696,418
Iowa	1,395,039	1,409,961	1,376,530
Kansas	1,326,752	1,294,231	1,249,019
Kentucky	1,889,806	1,861,889	1,850,870
Louisiana	2,064,779	2,043,286	1,897,677
Maine	658,179	627,639	611,394
Maryland	2,099,811	2,157,848	2,091,205
Massachusetts	2,542,571	2,520,043	2,432,912
Michigan	4,369,647	4,376,926	4,371,053
Minnesota	2,092,710	2,102,362	2,077,581
Mississippi	1,264,910	1,258,286	1,265,082
Missouri	2,780,023	2,758,383	2,752,483
Montana	446,745	444,019	447,363
Nebraska	801,447	801,115	796,515
Nevada	605,424	633,267	651,818
New Hampshire	527,610	527,063	510,137
New Jersey	3,491,849	3,531,169	3,527,419
New Mexico	828,818	820,568	811,429
New York	5,698,886	5,769,796	5,996,576
North Carolina	3,387,273	3,369,498	3,337,499
North Dakota	365,846	361,269	362,200
Ohio	5,013,407	5,024,784	4,796,925
Oklahoma	1,665,946	1,678,029	1,712,492
Oregon	1,364,831	1,366,267	1,366,546
Pennsylvania	4,766,668	4,710,022	4,722,253
Rhode Island	401,304	384,987	380,238
South Carolina	1,595,246	1,829,113	1,866,536
South Dakota	396,289	398,125	393,898
Tennessee	2,541,699	2,632,750	2,494,386
Texas	8,890,061	8,749,439	8,859,462
Utah	779,897	751,078	724,524
Vermont	291,291	283,993	290,641
Virginia	3,022,281	3,042,734	3,026,255
Washington	2,158,790	2,316,136	2,311,131
West Virginia	840,609	836,891	848,683
Wisconsin	2,117,182	2,122,169	2,122,743
Wyoming	318,867	325,962	307,602
TOTAL	114,703,950	115,557,638	115,274,600

See notes and sources at end of table

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

*(a) This table shows gross gallons of gasoline reported by wholesale distributors in each state.
The data are taken from state taxation reports and represent highway use, non-highway use and losses.
(b) Prior to 1962 data not available on a comparable basis.
NA=Not Available*

*SOURCE: American Petroleum Institue, Gasoline Consumption in the United States.
Federal Highway Administration, "Monthly Motor Fuel Reported by States"
Federal Highway Administration, Highway Statistics (Annual) Table MF-33GA.*

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,326	4,346
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883
Kansas	2,881	4,094	3,165	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,426	6,434
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,086
Massachuset	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656
New Hampsh	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779
N. Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,406
N. Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	24,221
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,939	10,981	10,862	10,132	9,380
Pennsylvania	19,916	22,198	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250
S. Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266
S. Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,256	4,655
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915
W. Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,099	17,149	20,136
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697
TOTAL	298,014	341,973	329,196	395,306	448,908	479,210	488,844	526,245	581,127	615,775	617,275	653,559

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	4,891	5,370	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510
Alaska	2,618	2,616	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082
Arizona	2,100	2,774	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898
Arkansas	2,175	2,052	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474
California	26,357	26,697	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188
Colorado	3,099	4,225	4,441	4,148	4,581	4,074	4,002	4,670	4,811	5,574	5,490	5,211
Connecticut	22,176	23,230	23,199	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147
Delaware	2,487	2,723	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,097	4,309
Dist. of Col.	2,719	2,914	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934
Florida	8,190	8,971	9,369	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,698
Georgia	4,731	5,117	5,269	6,218	6,969	6,977	8,666	10,059	11,558	12,013	12,540	12,784
Hawaii	–	876	1,666	1,641	1,375	1,769	1,613	1,369	1,190	1,381	1,573	1,695
Idaho	3,734	4,055	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597
Illinois	43,008	42,490	42,255	41,361	41,421	41,580	41,702	39,831	39,846	42,795	44,498	44,517
Indiana	24,500	25,596	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363
Iowa	11,360	11,141	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,681
Kansas	5,060	4,751	5,187	5,242	5,612	5,487	5,405	6,310	6,009	6,660	6,488	7,559
Kentucky	5,800	4,833	4,426	5,822	5,532	5,697	5,659	7,068	6,901	7,304	7,865	8,209
Louisiana	11,249	10,694	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,796
Maine	7,108	7,456	8,307	8,645	9,487	8,792	9,424	9,038	10,110	10,647	11,417	11,837
Maryland	12,495	13,101	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860
Massachuset	47,781	51,022	52266	53,448	51,664	49,966	56,694	51,262	54,943	56,315	58,399	59,211
Michigan	28,387	30,464	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,601	37,473	38,108
Minnesota	15,079	16,241	15,967	16,776	16,629	16,739	19,227	21,195	20,083	22,233	22,121	22,390
Mississippi	2,318	2,364	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987
Missouri	12,700	12,830	12,858	13,412	13,939	13,884	14,077	13,908	13,924	17,067	16,473	16,218
Montana	4,474	4,877	5,248	5,522	5,400	5,684	5,041	5,802	3,459	4,119	4,669	4,823
Nebraska	3,929	4,183	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459
Nevada	2,051	2,428	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832
New Hampsh	4,049	4,484	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676
New Jersey	45,634	45,542	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447
New Mexico	2,302	3,065	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,183	4,547	5,405
New York	79,499	81,677	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122
N. Carolina	11,544	13,353	13,366	15,617	16,000	16,249	17,428	20,869	20,577	19,944	20,407	22,553
N. Dakota	3,632	3,775	3,693	4,472	4,584	4,529	5,252	6,008	6,036	6,156	5,959	4,973
Ohio	24,850	23,836	23,433	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435
Oklahoma	2,603	2,631	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573
Oregon	10,456	10,920	11,061	11,777	12,828	13,855	13,295	13,837	13,083	13,298	13,646	12,895
Pennsylvania	44,029	45,668	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544
Rhode Island	7,167	8,093	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623
S. Carolina	4,454	5,203	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469
S. Dakota	2,882	2,964	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372
Tennessee	5,037	5,268	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945
Texas	26,541	24,315	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398
Utah	3,478	3,841	3,085	3,607	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104
Vermont	2,399	2,939	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732
Virginia	12,984	14,184	14,631	15,843	16,945	16,542	18,941	21,304	21,796	22,286	23,218	24,624
Washington	16,867	18,045	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188
W. Virginia	2,154	2,462	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913
Wisconsin	20,316	21,711	22,153	23,399	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827
Wyoming	3,539	3,258	3,250	3,838	3,815	3,653	3,743	3,038	4,023	5,153	5,249	5,055
TOTAL	658,992	683,325	690,874	729,095	748,124	747,551	786,891	809,713	829,200	873,100	900,300	927,250

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	8,849	12,093	13,988	14,761	14,488	18,032	19,624	20,194	15,996	19,419	17,939	15,436
Alaska	6,352	6,207	6,384	6,591	6,946	9,517	10,187	10,571	5,808	6,781	6,548	6,335
Arizona	5,242	8,786	15,118	11,197	11,481	10,181	13,727	13,829	13,194	11,330	9,741	8,102
Arkansas	5,489	9,412	9,949	10,316	9,392	10,228	12,451	13,014	16,163	14,209	13,116	13,336
California	47,357	45,797	51,165	42,991	43,129	45,545	54,009	60,126	68,104	61,338	67,494	67,337
Colorado	6,242	6,784	7,737	8,712	8,590	9,408	9,668	10,023	10,451	9,665	8,634	9,132
Connecticut	24,100	24,735	25,181	22,677	21,844	23,706	23,249	23,011	27,916	22,499	19,745	20,509
Delaware	4,345	4,298	4,382	4,310	4,487	4,615	5,096	4,840	3,685	3,702	3,133	2,753
Dist. of Col.	3,834	3,314	3,462	3,497	3,112	3,781	4,005	6,204	4,364	3,436	2,125	2,215
Florida	16,525	19,488	22,662	22,599	23,083	24,268	28,236	28,920	28,084	28,520	29,816	22,503
Georgia	14,638	16,491	20,478	20,835	16,922	22,480	22,559	19,641	18,692	19,397	19,388	18,387
Hawaii	1,706	1,622	1,839	1,897	2,512	2,370	3,502	3,246	6,451	5,915	6,043	4,570
Idaho	5,702	5,866	6,297	6,876	7,378	7,346	7,983	8,362	6,504	4,879	4,775	4,496
Illinois	49,467	55,276	54,288	53,950	52,103	58,877	58,459	61,760	48,584	36,086	34,427	32,521
Indiana	30,670	34,233	34,353	34,516	33,314	36,193	38,044	39,278	35,653	30,488	28,961	28,913
Iowa	14,242	14,975	15,467	14,751	14,249	15,257	16,012	16,687	20,595	15,793	14,374	16,212
Kansas	8,401	9,166	10,330	11,080	11,328	11,986	12,484	14,317	18,960	13,923	13,239	13,817
Kentucky	7,776	9,470	10,457	10,176	10,760	13,566	16,845	18,809	20,608	22,598	18,217	17,507
Louisiana	13,384	17,644	24,677	24,766	22,139	23,324	32,251	33,185	37,224	32,804	37,964	30,858
Maine	12,120	12,744	12,147	11,659	11,331	13,407	14,476	13,373	11,218	10,627	9,266	9,189
Maryland	20,000	21,435	22,591	22,094	21,712	20,571	21,748	21,341	23,971	22,417	18,365	16,198
Massachuset	61,609	63,616	62,970	58,934	57,195	61,666	59,564	57,446	42,347	37,413	32,155	32,263
Michigan	41,684	48,660	47,146	44,204	41,747	43,826	44,835	45,461	30,892	27,841	26,657	22,819
Minnesota	23,777	25,979	26,768	24,185	23,974	27,513	26,645	27,807	26,069	21,826	18,714	20,880
Mississippi	7,215	9,413	13,045	14,372	12,188	13,713	14,584	16,306	12,277	12,905	13,487	11,849
Missouri	16,350	18,101	18,781	17,424	17,106	19,555	20,588	23,027	22,780	18,150	18,003	20,738
Montana	5,709	6,121	6,924	7,646	7,459	8,383	8,141	8,114	7,774	6,626	6,486	5,814
Nebraska	7,604	9,002	9,262	8,684	8,363	10,178	10,643	12,127	12,601	9,145	8,233	9,176
Nevada	3,151	2,924	3,304	2,561	2,535	2,715	3,055	3,822	3,189	4,022	3,488	3,518
New Hampsh	8,085	8,303	8,208	7,551	7,047	8,758	8,231	8,292	5,741	5,845	5,313	5,084
New Jersey	64,769	72,659	74,564	67,426	58,937	61,787	60,052	56,592	50,447	52,719	50,973	45,546
New Mexico	5,395	6,569	7,948	7,635	8,080	8,022	9,337	9,633	10,431	10,222	12,526	7,954
New York	113,833	122,075	120,200	108,677	104,646	115,237	114,446	114,344	88,449	72,515	64,263	62,608
N. Carolina	21,609	23,030	24,898	22,246	20,965	23,881	27,107	24,749	29,404	23,820	21,228	20,184
N. Dakota	4,915	5,135	4,626	4,303	4,362	4,061	4,069	4,194	8,268	8,037	7,708	7,209
Ohio	35,090	41,414	41,415	40,831	42,160	51,519	52,501	55,346	44,952	48,397	44,959	40,250
Oklahoma	5,473	7,828	8,814	8,744	9,696	11,775	12,775	14,477	14,119	12,051	15,519	14,557
Oregon	14,162	15,467	16,070	14,324	13,240	14,062	16,794	16,671	19,281	17,051	16,462	15,020
Pennsylvania	63,221	70,757	70,793	71,508	66,341	74,691	77,861	73,311	76,651	68,066	59,977	53,065
Rhode Island	9,070	9,176	8,633	8,038	7,787	8,478	8,199	7,679	7,042	5,046	3,993	3,984
S. Carolina	9,114	9,722	10,956	9,638	8,132	10,218	12,972	11,023	11,894	10,730	9,841	9,462
S. Dakota	4,600	4,469	4,140	3,586	3,821	3,311	3,042	3,670	6,166	4,842	4,406	5,131
Tennessee	11,609	14,218	15,310	15,815	17,657	21,469	24,071	26,825	23,504	18,818	19,512	18,764
Texas	34,884	46,515	57,567	58,766	55,262	58,655	74,678	81,171	96,359	95,939	90,359	90,180
Utah	6,515	6,310	7,792	8,624	8,962	8,367	8,631	9,023	8,150	7,412	7,115	6,425
Vermont	5,472	5,729	6,001	4,981	4,566	5,394	5,274	5,135	5,389	4,076	3,828	2,707
Virginia	24,441	25,020	26,561	24,938	24,534	25,339	28,332	27,161	33,726	24,406	23,638	21,943
Washington	18,621	19,090	20,091	16,345	16,606	18,405	19,800	20,765	21,776	18,709	17,695	18,200
W. Virginia	4,658	5,532	5,922	5,622	6,478	6,807	9,019	8,796	10,904	10,340	9,450	7,659
Wisconsin	26,520	26,781	27,264	26,330	26,035	30,366	31,107	32,940	31,504	22,539	20,726	20,537
Wyoming	5,724	5,419	6,138	6,897	7,565	8,120	9,211	10,423	10,063	11,375	12,452	11,015
TOTAL	971,320	1,074,870	1,135,063	1,081,086	1,043,746	1,150,929	1,230,179	1,257,061	1,214,374	1,086,709	1,032,476	974,864

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	15,457	16,243	16,402	16,596	18,885	20,420	24,740	25,460
Alaska	7,066	7,840	10,163	7,994	8,198	8,986	11,070	11,493
Arizona	8,792	9,885	10,049	11,147	10,405	10,381	11,307	11,903
Arkansas	13,389	14,230	15,076	13,536	13,703	14,313	14,640	14,317
California	68,413	76,288	72,468	74,955	74,040	84,983	81,976	82,307
Colorado	10,915	11,344	9,621	10,140	9,876	11,203	10,255	10,344
Connecticut	16,933	18,544	18,937	20,501	21,082	22,801	25,553	20,352
Delaware	3,376	3,556	3,398	3,281	4,047	3,827	4,279	3,201
Dist. of Col.	2,769	3,054	2,476	2,835	2,668	3,410	3,340	2,501
Florida	27,765	29,210	30,320	31,953	32,960	34,714	34,805	34,556
Georgia	21,917	23,865	23,676	24,528	26,007	27,898	28,186	28,475
Hawaii	2,327	2,766	4,631	4,676	4,289	6,089	6,056	6,846
Idaho	5,263	5,898	5,596	5,914	6,390	6,505	6,860	7,154
Illinois	35,503	37,485	32,649	35,073	34,387	33,807	34,691	42,351
Indiana	27,720	31,123	30,734	31,758	31,747	28,813	33,440	32,656
Iowa	14,086	15,314	15,461	15,898	15,750	16,024	14,961	15,160
Kansas	13,921	15,068	14,954	14,201	16,644	16,576	15,768	16,517
Kentucky	20,442	22,061	21,722	20,311	20,547	24,693	28,308	23,471
Louisiana	31,105	31,448	33,660	35,006	36,727	39,070	37,231	39,164
Maine	7,325	8,339	9,580	11,470	11,965	13,674	12,291	11,960
Maryland	18,381	18,704	17,849	17,747	18,021	18,087	20,837	17,058
Massachuset	31,364	32,693	32,511	34,707	36,951	35,748	39,299	33,997
Michigan	22,525	24,282	25,625	26,691	25,615	27,940	25,311	23,544
Minnesota	17,413	18,142	19,463	18,956	18,326	19,975	19,262	18,450
Mississippi	13,306	14,118	15,923	14,842	16,732	19,062	17,144	16,131
Missouri	16,762	18,543	19,532	18,358	19,344	21,145	22,135	20,698
Montana	8,883	9,366	11,334	6,999	6,548	6,268	7,678	7,386
Nebraska	11,580	12,007	12,356	12,004	12,324	13,942	12,474	12,442
Nevada	5,304	5,561	5,431	5,575	6,506	6,780	7,444	7,339
New Hampsh	4,520	4,762	5,246	5,765	7,539	6,770	7,575	6,311
New Jersey	38,917	40,323	40,122	45,606	43,194	45,245	44,211	34,371
New Mexico	6,705	7,103	8,513	9,704	10,632	10,184	9,078	9,176
New York	56,525	58,478	61,513	70,851	72,661	75,232	75,676	65,985
N. Carolina	24,626	26,155	24,853	27,585	28,376	31,519	27,030	25,004
N. Dakota	6,867	7,405	7,495	7,394	6,810	6,776	7,039	6,743
Ohio	33,180	35,888	36,069	35,814	33,555	36,999	38,230	36,727
Oklahoma	16,635	17,931	18,341	13,836	13,897	14,858	14,720	15,359
Oregon	16,094	15,728	15,429	14,889	16,207	16,479	16,303	16,962
Pennsylvania	51,763	54,048	53,052	53,529	57,419	58,510	61,359	53,860
Rhode Island	4,736	4,905	4,457	5,308	6,045	5,944	5,913	4,684
S. Carolina	10,592	11,520	11,814	11,716	11,913	12,616	12,527	14,574
S. Dakota	4,464	4,876	4,989	6,044	5,895	6,208	5,425	5,487
Tennessee	21,519	23,895	22,309	22,414	22,464	23,281	23,051	23,838
Texas	95,849	96,771	95,235	86,265	88,658	86,572	87,078	82,235
Utah	6,459	6,997	5,951	7,428	6,792	7,328	6,195	7,324
Vermont	3,457	3,709	4,182	3,943	4,355	4,639	4,614	4,036
Virginia	25,087	25,948	25,263	28,439	29,361	32,658	29,287	28,316
Washington	16,382	18,187	20,408	23,288	21,243	21,097	21,015	21,764
W. Virginia	9,930	10,424	9,779	7,583	8,912	8,860	10,215	9,720
Wisconsin	20,399	21,867	22,516	21,825	21,033	24,175	24,516	23,210
Wyoming	7,219	7,321	7,697	6,864	8,767	9,427	9,826	9,586
TOTAL	981,926	1,041,217	1,046,827	1,063,740	1,086,413	1,142,510	1,152,225	1,102,503

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

SOURCE: 1947-1975: U.S.Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual
1976-1990: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Petroleum Supply Annuals
Petroleum Marketing Monthly and Annual.

United States Deliveries of Distillate Fuel Oil by Uses
(Thousands of Barrels)

Year	Heating Oils	Industrial Use(d)	Oil Company Fuel	Electric Utility Company(c)	Railroads	Vessel Bunkering	Military Use(e)	Diesel	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	34,980	12,087	488,844
1954	320,117	41,589	7,699	6,070	77,389	15,563	8,752	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	48,870	9,908	615,775
1957	377,044	43,532	10,419	5,296	88,315	20,420	12,737	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	65,186	9,054	653,559
1959 (a)	415,521	33,380	8,642	5,005	87,802	19,250	11,394	70,527	7,471	658,992
1960 (b)	438,010	34,271	8,347	4,742	86,490	18,730	10,793	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,803	15,836	13,041	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,612	89,104	16,642	16,303	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	(g)	147,831	829,200
1968	510,682	45,795	9,975	8,509	84,030	18,235	12,593	171,773	11,508	873,100
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	276,961	11,876	1,135,063
1974	493,223	64,036	13,805	84,661	102,949	24,757	17,748	269,776	10,131	1,081,086
1975	488,388	63,993	13,633	63,420	93,191	26,138	18,004	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	360,799	14,059	1,257,061
1979	454,955	99,583	22,043	46,579	103,493	41,725	18,570	392,614	34,812	1,214,374
1980	393,112	86,089	24,205	31,812	102,022	35,201	19,138	375,136	19,994	1,086,709
1981	345,728	80,216	29,185	18,192	100,482	41,025	17,763	378,853	21,032	1,032,476
1982	324,912	71,340	29,482	12,134	93,150	33,885	15,201	375,124	19,639	974,864
1983	339,455	54,030	21,510	11,744	76,230	39,108	15,804	408,594	15,451	981,926
1984	352,127	56,114	21,623	16,405	82,308	40,287	16,579	439,786	15,988	1,041,217
1985	358,058	61,730	20,869	12,246	76,422	45,102	18,290	449,912	4,198	1,046,827
1986	356,380	63,907	17,857	14,628	73,800	48,434	18,105	467,280	3,349	1,063,740
1987	355,899	69,467	20,994	15,383	74,944	52,935	21,057	473,930	1,805	1,086,413
1988	362,329	62,325	20,765	19,050	77,601	55,009	23,354	520,489	1,590	1,142,510
1989	346,590	61,078	20,124	25,688	77,720	56,106	22,103	542,124	693	1,152,225

See notes and sources at end of table

United States Deliveries of Distillate Fuel Oil by Uses
(Thousands of Barrels)

Year	Heating Oils	Industrial Use(d)	Oil Company Fuel	Electric Utility Company(c)	Railroads	Vessel Bunkering	Military Use(e)	Diesel	All Other	Total
1990	305,226	58,389	23,066	17,469	76,431	52,310	18,676	550,877	61	1,102,503

(a) Includes Alaska
(b) Includes Alaska and Hawaii
(c) Includes gas turbine plants in 1968 and subsequent years. Includes kerosine-type jet fuel: 1976- 11,600 bbls per day. 1977- 18,700 bbls. per day; 1978- 12,343 bbls per day.
(d) Excludes oil company use
(e) Includes imports by military
(f) Beginning in 1979, heating oil is no longer a separate category. The figure is derived by adding residential, commercial and farming.
(g) Included under all other

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual
1975-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1988: U.S. Energy Information Administration, Petroleum Marketing Monthly and Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales.

Section VII
Table 11

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	574
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34
Arkansas	2,253	2,080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,343	28,909	32,236	34,910	36,228	37,470	33,310
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,339	46,154	44,587	45,136	36,841	41,422
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,260	18,530	9,721	11,028
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11,127	10,350
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,985	4,291	4,389	4,383	4,660	4,886
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162
West Virginia	828	1,171	1,366	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167
Wyoming	3,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842
U.S. Total	520,529	506,497	494,933	554,208	563,388	556,273	564,729	520,714	556,983	561,538	543,950	531,367	554,352

See notes and sources at end of table

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,202	3,555	2,749	3,184	2,274	2,459	1,652	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	695	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	95	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	474	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	78,774	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	1,790	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,450	14,549	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	6,081	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	2,387	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	11,042	11,148	10,748	10,656
Florida	28,978	32,600	37,044	36,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	6,413	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	5,613	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	201	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,893	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	12,885	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,021	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	2,249	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	321	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,599	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	5,742	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	16,490	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	38,942	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	11,242	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	6,363	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	339	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	3,026	2,638	2,131	2,335	2,400	3,252	2,623	3,317	3,379	3,640	3,615	2,904	2,552
Montana	2,022	2,533	3,049	2,836	2,356	1,195	1,371	1,189	1,495	1,524	1,249	1,236	1,485
Nebraska	378	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	202	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,324	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,791	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	173	311	323	209	146	655	363	111	90	95	215	466	621
New York	76,586	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,537	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	663	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	11,382	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	1,396	873	967	797	825	795	637	776	866	683	744	637	1,355
Oregon	5,453	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	42,731	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	51,489	60,389	59,973	58,490
Rhode Island	9,502	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	4,634	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	60	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	184	171	105	275	287	276	331	465	334	786	596	365	523
Texas	22,102	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,562	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	498	540	629	607	413	937	1,048	504	547	677	903	898	954
Virginia	17,448	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	9,179	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,451	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,275	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	1,738	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S. Total	550,536	542,986	548,433	538,522	556,632	574,118	613,972	639,539	669,484	722,529	804,287	838,044	925,647

See notes and sources at end of table

Section VII
Table 11b

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	6,151	10,496	13,220	14,684	16,272	16,443	11,294	8,820	4,686	6,350	3,764	4,150	3,773
Alaska	1,051	1,098	1,104	1,342	1,738	2,595	321	397	249	301	60	67	896
Arizona	4,288	6,943	5,182	4,108	7,478	3,413	5,032	1,046	227	297	616	562	10
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747	11,813	5,472	2,449	1,803	775	1,045	2,545
California	121,059	105,314	113,782	136,080	180,436	140,595	160,428	162,365	126,463	81,392	62,534	67,319	59,892
Colorado	2,317	3,177	3,591	3,903	3,502	4,091	1,041	1,373	165	14	342	324	214
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325	27,241	28,209	21,951	21,349	35,676	32,541	23,414
Delaware	13,117	12,632	10,239	11,332	11,524	11,376	11,073	12,889	8,671	6,289	3,627	3,290	1,342
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235	767	444	389	1,527	918	857	509
Florida	82,873	75,440	78,885	92,171	85,323	91,175	98,722	96,955	90,347	63,079	35,937	32,561	32,515
Georgia	13,888	13,454	9,831	12,257	12,666	11,988	13,368	8,512	6,251	5,562	5,013	4,489	8,859
Hawaii	11,580	11,219	10,776	11,778	12,512	12,796	12,641	13,251	13,311	13,323	14,649	13,623	13,728
Idaho	243	597	703	803	697	1,003	580	460	55	223	113	107	414
Illinois	28,795	28,521	26,948	23,659	26,598	30,111	26,675	28,023	21,399	15,507	8,686	7,505	4,899
Indiana	15,536	16,078	14,052	19,188	19,447	19,004	16,271	14,335	7,638	4,856	3,262	2,862	4,712
Iowa	679	628	405	588	764	599	836	360	100	321	208	180	225
Kansas	2,847	2,660	5,945	6,416	6,307	6,686	4,830	1,046	697	993	1,832	1,580	95
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506	1,151	966	1,150	1,197	1,275	1,094	779
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252	63,359	72,686	55,687	48,260	44,187	49,625	45,953
Maine	19,860	15,272	10,064	13,116	12,234	11,415	10,738	8,413	10,090	15,803	5,742	5,183	3,687
Maryland	42,534	39,310	25,538	27,330	26,122	28,217	23,851	16,090	12,396	11,898	11,958	10,795	6,562
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208	58,958	52,948	49,673	42,762	24,722	22,463	30,046
Michigan	14,560	14,876	18,739	20,656	21,345	24,871	18,547	11,934	8,947	4,285	3,823	3,290	3,298
Minnesota	7,069	5,883	4,322	5,796	4,414	4,576	2,695	3,044	1,460	1,732	1,688	1,487	1,225
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308	24,740	17,459	9,725	5,570	2,381	2,375	1,466
Missouri	2,959	2,375	2,992	2,948	3,647	3,620	3,196	1,370	656	856	580	500	920
Montana	1,705	2,290	2,186	2,549	2,414	2,665	4,188	3,012	2,519	1,668	1,418	1,349	640
Nebraska	639	1,045	1,077	1,650	1,189	1,410	622	78	57	198	113	97	77
Nevada	612	690	1,456	649	1,455	2,756	1,541	2,503	250	119	90	80	39
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408	6,109	5,437	4,835	4,106	1,680	1,519	804
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726	60,980	53,167	38,279	34,241	52,464	47,312	37,754
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081	596	1,305	856	716	3,576	4,823	2,755
New York	169,669	155,327	146,837	157,812	157,773	153,037	130,344	112,872	97,868	90,073	73,436	66,754	50,662
North Carolina	15,393	13,819	7,786	12,667	14,499	12,814	11,889	9,114	5,677	5,971	6,297	5,680	4,537
North Dakota	898	1,190	1,101	1,045	889	950	801	701	1,130	1,171	1,645	1,410	635
Ohio	6,866	8,330	9,957	11,041	14,491	13,431	9,674	6,282	5,920	2,488	4,346	3,742	2,740
Oklahoma	1,629	1,201	752	683	661	987	820	719	745	700	559	479	264
Oregon	7,439	6,650	4,484	3,606	3,395	5,087	5,526	4,562	6,407	10,927	4,607	4,893	4,352
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366	45,365	34,777	30,340	20,789	21,706	19,687	13,153
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088	2,387	2,230	2,227	1,791	1,060	958	1,222
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579	11,249	7,127	5,142	2,965	4,260	3,818	2,275
South Dakota	234	137	153	299	260	213	166	115	161	51	147	126	44
Tennessee	650	883	734	3,085	3,404	2,529	2,276	1,472	1,239	748	1,131	969	675
Texas	29,208	36,891	41,072	44,195	52,178	63,634	73,206	73,189	68,671	62,069	45,725	49,104	43,173
Utah	3,649	4,295	4,698	4,917	4,565	4,441	2,374	2,584	1,064	886	1,736	1,660	1,951
Vermont	876	535	818	1,285	1,136	1,073	337	471	351	372	345	312	88
Virginia	46,123	43,274	40,015	40,108	41,171	37,371	34,020	24,704	13,072	9,591	10,068	9,109	*8,206
Washington	10,986	10,365	8,627	7,675	9,683	12,647	13,893	17,332	16,505	14,029	5,358	5,153	8,643
West Virginia	1,448	1,709	1,847	4,146	4,039	3,082	1,982	1,465	1,001	1,443	1,190	1,074	702
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613	1,915	1,751	871	2,212	876	834	456
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090	2,182	1,630	2,009	1,634	401	380	1,016
U.S. Total	1,030,177	963,216	898,572	1,025,148	1,120,927	1,103,233	1,034,610	937,466	762,028	626,510	518,604	501,199	438,840

See notes and sources at end of table

Section VII
Table 11c

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1986	1987	1988	1989	1990
Alabama	9,243	10,910	13,103	14,006	3,645
Alaska	5,125	1,363	258	103	238
Arizona	29	15	39	88	80
Arkansas	6,437	2,690	1,905	3,406	214
California	62,987	60,082	64,677	55,789	69,212
Colorado	1,040	211	25	154	12
Connecticut	14,272	20,900	19,526	19,385	15,053
Delaware	2,195	3,818	4,706	5,357	3,945
Dist. of Col.	780	582	176	109	207
Florida	48,576	36,668	48,680	49,620	56,616
Georgia	2,229	2,199	2,244	1,434	3,139
Hawaii	13,307	12,587	15,456	20,127	18,144
Idaho	85	390	254	343	60
Illinois	7,358	7,106	6,318	5,006	3,306
Indiana	5,201	3,782	3,389	4,241	3,580
Iowa	614	126	279	241	116
Kansas	571	345	768	415	255
Kentucky	893	897	616	623	502
Louisiana	37,339	43,913	45,370	43,414	21,616
Maine	9,481	7,451	9,746	8,434	10,301
Maryland	6,465	7,919	8,489	12,755	10,163
Massachusetts	47,932	38,772	34,806	30,600	30,071
Michigan	4,214	3,002	4,591	4,663	2,760
Minnesota	2,170	1,271	1,378	1,398	897
Mississippi	12,820	2,613	8,178	17,210	3,458
Missouri	879	950	1,026	1,031	818
Montana	201	140	998	1,372	203
Nebraska	241	337	468	474	239
Nevada	442	376	965	672	261
New Hampshire	5,428	4,481	5,950	5,657	5,303
New Jersey	36,911	20,639	24,863	22,138	17,508
New Mexico	1,638	589	664	2,077	132
New York	66,353	68,697	82,223	75,935	80,238
North Carolina	4,180	4,484	4,604	2,744	5,461
North Dakota	468	381	382	396	312
Ohio	2,779	2,162	3,081	2,872	1,593
Oklahoma	466	348	712	506	601
Oregon	5,724	4,348	4,794	4,901	4,144
Pennsylvania	19,039	18,179	17,636	16,685	18,138
Rhode Island	2,515	1,917	1,927	1,046	1,263
South Carolina	1,753	1,676	2,438	1,498	2,251
South Dakota	71	57	81	87	56
Tennessee	702	337	483	609	286
Texas	37,177	36,300	32,178	32,973	25,651
Utah	1,494	2,185	1,302	1,904	399
Vermont	298	240	176	92	221
Virginia	8,309	9,490	7,613	9,006	8,390
Washington	16,489	11,229	11,915	14,403	15,200
West Virginia	750	382	467	477	1,186
Wisconsin	1,245	1,242	1,187	1,356	1,037
Wyoming	803	726	1,163	232	37
U.S. Total	517,717	461,504	504,275	500,067	448,521

See notes and sources at end of table

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

SOURCE: 1947-1972: U.S. Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual.
1973-1978: U.S Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1984: U.S. Energy Information Administration, Petroleum Marketing Monthly, July 1985.
1985-1988: U.S. Energy Information Administration, Petroleum Marketing Monthly and Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales.

United States Sales of Residual Fuel Oil by Uses
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(c)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(e)	Military Use(d)	All Other	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959(a)	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960(b)	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	73,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	836,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233
1979	190,543	486,636	245	51,062	198,759	82,729	7,736	16,900	1,034,610
1980	213,131	390,105	665	59,519	163,564	98,034	8,066	4,382	937,466
1981	188,632	325,486	178	51,870	117,024	67,035	7,008	4,795	762,030
1982	152,586	227,419	170	45,319	122,619	65,781	7,829	4,784	626,510
1983	136,290	204,238	47	28,604	93,624	35,979	5,411	14,412	518,604
1984	135,408	186,318	43	27,680	94,375	33,777	5,291	18,307	501,199
1985	130,323	147,238	148	18,477	95,509	31,592	4,593	10,962	438,840
1986	125,889	215,276	14	18,239	106,962	39,595	4,308	7,434	517,717
1987	125,221	181,712	7	11,967	90,723	42,013	4,549	5,314	461,504

See notes and sources at end of table

United States Sales of Residual Fuel Oil by Uses
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(c)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(e)	Military Use(d)	All Other	All Uses
1988	124,976	227,164	1	10,317	91,787	42,589	3,269	4,173	504,275
1989	128,816	233,285	4	9,600	88,397	36,596	2,506	864	500,068
1990	148,764	200,797	0	7,485	53,044	35,793	1,952	686	448,521

(a) Includes Alaska
(b) Includes Hawaii
(c) Beginning in 1967, represented use by electric public-utility plants only.
(d) Includes imports by military.
(e) Beginning in 1979, heating oil has been reclassified commercial and is a part of the total called "heating and industrial."
(f) Included in All Other

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals
1976-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1987: U.S. Energy Information Administration, Petroleum Marketing Monthly, July issues.
1988: U.S. Energy Information Administration, Petroleum Marketing Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales, Annuals.

Total United States Supply and Demand for Jet Fuel--Naphtha Type (Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1965(a)	226	44	270	8,338	--	270	2	268
1966	245	35	280	7,235	-3	283	4	279
1967	300	15	315	9,037	5	310	5	305
1968	332	19	351	8,904	--	351	5	346
1969	287	14	301	8,556	-1	302	5	297
1970	230	20	250	6,621	-5	255	6	249
1971	234	30	264	6,990	1	263	3	260
1972	209	33	242	6,147	-2	244	2	242
1973	181	36	217	5,599	-2	219	2	217
1974	195	27	222	5,529	--	222	--	222
1975	180	28	208	5,222	-1	209	--	209
1976	187	15	202	6,495	3	199	--	199
1977	186	21	207	6,285	-1	208	--	208
1978	179	19	198	5,958	-1	199	--	199
1979	176	22	198	5,599	-1	200	--	200
1980	188	31	219	6,308	2	217	--	217
1981	193	7	200	7,054	2	199	1	198
1982	201	5	206	5,667	-4	210	1	209
1983	205	1	206	6,265	-1	208	1	207
1984	213	14	227	6,861	2	226	3	223
1985	206	9	215	6,654	-1	215	1	214
Jan.	185	19	204	6,415	-14	219	1	218
Feb.	195	9	204	6,183	-8	212	0	212
Mar.	189	17	206	6,767	19	187	0	187
Apr.	222	3	225	6,205	-19	244	0	244
May	230	6	236	6,428	7	228	0	228
Jun.	211	15	226	6,227	-7	232	0	232
Jul.	224	8	232	6,977	24	207	0	207
Aug.	209	3	212	6,982	--	213	2	211
Sep.	206	0	206	6,857	-4	210	2	208
Oct.	203	13	216	6,738	-4	220	3	217
Nov.	209	9	218	6,793	2	217	6	211
Dec.	189	2	191	6,654	-4	195	3	192
1986	196	9	205	7,072	1	203	1	202
Jan.	193	2	195	6,534	-4	200	0	200
Feb.	173	2	175	6,264	-10	184	1	183
Mar.	172	5	177	5,795	-15	192	1	191
Apr.	201	5	206	6,712	31	176	5	171
May	197	15	212	6,513	-6	218	0	218
Jun.	209	9	218	6,581	2	215	0	215
Jul.	203	16	219	6,099	-16	235	0	235
Aug.	197	8	205	6,609	16	189	1	188
Sep.	197	6	203	6,700	3	199	0	199
Oct.	202	7	209	6,764	2	207	0	207
Nov.	202	11	213	6,901	5	209	0	209
Dec.	203	21	224	7,072	6	219	10	209

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1987	204	3	207	7,956	2	205	1	204
Jan.	174	6	180	7,631	18	161	2	159
Feb.	194	3	197	7,141	-18	214	0	214
Mar.	187	6	193	7,031	-4	197	1	196
Apr.	202	3	205	7,183	5	199	0	199
May	216	2	218	8,078	29	189	0	189
Jun.	204	2	206	7,262	-27	233	0	233
Jul.	221	3	224	7,253	--	224	0	224
Aug.	208	3	211	6,981	-9	220	2	218
Sep.	204	2	206	6,506	-16	222	1	221
Oct.	219	4	223	7,097	19	203	0	203
Nov.	217	4	221	7,043	-2	223	2	221
Dec.	206	2	208	7,956	29	179	4	175
1988	206	3	209	6,051	-5	214	1	213
Jan.	185	3	188	7,572	-12	199	0	199
Feb.	178	3	181	6,086	-51	232	0	232
Mar.	211	2	213	6,639	18	195	0	195
Apr.	203	3	206	6,276	-12	218	0	218
May	229	4	233	6,853	19	214	3	211
Jun.	208	3	211	6,741	-4	215	0	215
Jul.	209	3	212	6,749	0	212	0	212
Aug.	206	3	209	6,893	5	205	1	204
Sep.	198	3	201	6,503	-13	214	7	207
Oct.	208	3	211	6,316	-6	216	2	214
Nov.	219	3	222	6,436	4	218	0	218
Dec.	217	3	220	6,051	-12	233	3	230
1989	206	3	209	6,380	1	209	4	205
Jan.	191	3	194	6,626	19	175	1	174
Feb.	190	2	192	6,383	-9	201	1	200
Mar.	209	4	213	6,118	-8	221	10	211
Apr.	196	3	199	6,079	-1	200	0	200
May	218	10	228	6,176	4	224	0	224
Jun.	211	4	215	6,200	1	214	0	214
Jul.	216	3	219	6,625	14	204	1	203
Aug.	200	4	204	6,012	-20	224	0	224
Sep.	224	3	227	6,818	27	200	0	200
Oct.	204	3	207	6,316	-16	223	2	221
Nov.	209	2	211	6,829	17	194	12	182
Dec.	205	1	206	6,380	-15	221	17	204

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1990	178	8	186	6,165	-1	186	4	182
Jan.	187	1	188	6,386	--	188	8	180
Feb.	199	1	200	6,337	-2	202	0	202
Mar.	201	2	203	7,048	23	179	13	166
Apr.	178	1	179	6,299	-25	204	8	196
May	198	2	200	6,853	18	181	0	181
Jun.	175	2	177	6,969	4	173	3	170
Jul.	126	2	128	6,349	-20	148	1	147
Aug.	174	2	176	5,716	-20	196	7	189
Sep.	210	10	220	6,088	12	207	2	205
Oct.	168	20	188	6,183	3	184	5	179
Nov.	161	34	195	5,791	-13	208	0	208
Dec.	159	16	175	6,165	12	163	0	163
1991(p)	164	12	176	4,730	-4	180	4	176
Jan.	155	20	175	5,999	-5	181	0	181
Feb.	164	15	179	5,869	-5	183	2	181
Mar.	142	12	154	5,866	--	155	1	154
Apr.	151	13	164	5,714	-5	169	13	156
May	176	15	191	5,670	-1	192	1	191
Jun.	173	7	180	5,509	-5	185	0	185
Jul.	172	7	179	5,728	7	171	4	167
Aug.	170	14	184	5,286	-14	199	--	199
Sep.	173	7	180	5,106	-6	186	--	186
Oct.	162	8	170	4,882	-7	177	7	170
Nov.	156	7	163	4,256	-21	185	0	185
Dec.	173	14	187	4,730	15	173	18	155

(a) Data prior to 1965 are not available on a comparable basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1965-1975: U.S. Bureau of Mines, Annual Petroleum Statement
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies

Section VII
Table 14

Total United States Supply and Demand for Jet Fuel--Kerosine Type (Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1965(a)	298	37	335	10,361	--	335	1	334
1966	345	52	397	13,139	5	392	1	391
1967	448	74	522	13,174	3	519	1	518
1968	529	86	615	15,373	6	609	--	609
1969	594	111	705	19,517	11	694	--	694
1970	597	125	722	29,989	4	718	--	718
1971	601	150	751	20,747	-1	752	1	751
1972	638	162	800	19,346	-3	803	--	803
1973	679	176	855	22,945	10	845	3	842
1974	641	135	776	23,906	3	773	2	771
1975	691	105	796	25,158	3	793	2	791
1976	731	61	792	25,590	1	791	2	789
1977	788	53	841	28,263	8	833	2	831
1978	791	67	858	27,707	-1	859	1	858
1979	835	56	891	32,921	14	877	1	876
1980	811	49	860	35,723	8	852	1	851
1981	775	31	806	34,011	-5	810	1	809
1982	778	23	801	31,180	-8	809	5	804
1983	817	29	846	32,346	2	844	5	839
1984	919	48	967	35,118	8	960	7	953
Jan.	870	51	921	29,234	-100	1,021	10	1,011
Feb.	938	110	1,048	32,929	127	921	2	919
Mar.	893	38	931	33,917	32	899	1	898
Apr.	871	42	913	34,056	5	908	5	903
May	890	29	919	34,488	14	906	1	905
Jun.	916	36	952	36,089	53	898	6	892
Jul.	948	40	988	36,780	22	966	10	956
Aug.	973	77	1,050	38,526	56	994	2	992
Sep.	926	33	959	37,989	-18	978	1	977
Oct.	958	56	1,014	38,214	7	1,007	5	1,002
Nov.	920	22	942	38,401	6	935	11	924
Dec.	931	38	969	35,118	-106	1,075	24	1,051
1985	983	30	1,013	33,825	-4	1,017	12	1,005
Jan.	958	49	1,007	34,691	-14	1,021	3	1,018
Feb.	981	29	1,010	35,302	22	988	22	966
Mar.	1,003	30	1,033	36,865	50	982	6	976
Apr.	937	14	951	35,041	-61	1,012	5	1,007
May	915	24	939	35,924	28	911	5	906
Jun.	914	20	934	36,537	20	913	3	910
Jul.	954	43	997	36,037	-16	1,012	3	1,009
Aug.	966	9	975	34,681	-44	1,019	21	998
Sep.	989	34	1,023	35,187	17	1,006	4	1,002
Oct.	1,036	42	1,078	35,558	12	1,067	25	1,042
Nov.	1,090	32	1,122	36,408	28	1,094	28	1,066
Dec.	1,051	35	1,086	33,825	-83	1,170	18	1,152

See notes and sources at end of table

Section VII
Table 14a

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1986	1,097	48	1,145	42,677	24	1,121	16	1,105
Jan.	1,143	25	1,168	35,051	40	1,128	38	1,090
Feb.	1,175	33	1,208	37,829	99	1,108	15	1,093
Mar.	1,119	24	1,143	41,729	126	1,018	11	1,007
Apr.	963	39	1,002	38,831	-97	1,098	12	1,086
May	1,004	39	1,043	38,807	-1	1,044	14	1,030
Jun.	1,066	76	1,142	39,703	30	1,112	6	1,106
Jul.	1,084	106	1,190	42,481	90	1,101	10	1,091
Aug.	1,072	77	1,149	41,884	-19	1,168	4	1,164
Sep.	1,093	54	1,147	42,233	12	1,136	14	1,122
Oct.	1,112	31	1,143	43,853	52	1,091	25	1,066
Nov.	1,125	48	1,173	43,237	-21	1,193	22	1,171
Dec.	1,210	28	1,238	42,677	-18	1,256	20	1,236
1987	1,138	64	1,202	41,973	-2	1,204	23	1,181
Jan.	1,192	37	1,229	42,116	-18	1,247	45	1,202
Feb.	1,135	64	1,199	41,154	-34	1,233	20	1,213
Mar.	1,095	77	1,172	41,044	-4	1,176	7	1,169
Apr.	1,052	62	1,114	39,977	-36	1,150	4	1,146
May	1,035	65	1,100	39,277	-23	1,122	4	1,118
Jun.	1,048	64	1,112	38,677	-20	1,132	5	1,127
Jul.	1,126	70	1,196	39,479	26	1,169	4	1,165
Aug.	1,191	52	1,243	40,762	41	1,201	2	1,199
Sep.	1,190	81	1,271	43,684	97	1,173	34	1,139
Oct.	1,189	79	1,268	42,740	-30	1,299	35	1,264
Nov.	1,171	51	1,222	43,937	40	1,183	45	1,138
Dec.	1,233	65	1,298	41,973	-63	1,362	74	1,288
1988	1,164	87	1,251	37,723	-12	1,263	27	1,236
Jan.	1,231	82	1,313	37,976	-129	1,441	81	1,360
Feb.	1,205	68	1,273	36,736	-43	1,315	34	1,281
Mar.	1,242	95	1,337	39,527	90	1,247	52	1,195
Apr.	1,088	81	1,169	39,020	-17	1,186	13	1,173
May	1,059	108	1,167	39,210	6	1,161	4	1,157
Jun.	1,133	75	1,208	38,811	-13	1,221	15	1,206
Jul.	1,154	85	1,239	40,148	43	1,196	3	1,193
Aug.	1,138	100	1,238	39,746	-13	1,251	14	1,237
Sep.	1,177	59	1,236	40,060	10	1,225	9	1,216
Oct.	1,158	143	1,301	47,755	22	1,279	2	1,277
Nov.	1,118	76	1,194	39,668	-36	1,230	9	1,221
Dec.	1,259	72	1,331	37,723	-63	1,394	80	1,314

See notes and sources at end of table

Section VII
Table 14b

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1989	1,197	103	1,300	34,471	-9	1,308	23	1,285
Jan.	1,312	98	1,410	37,787	2	1,408	74	1,334
Feb.	1,214	117	1,331	36,917	-31	1,362	20	1,342
Mar.	1,188	97	1,285	37,125	7	1,278	1	1,277
Apr.	1,074	125	1,199	38,101	33	1,166	16	1,150
May	1,031	110	1,141	39,243	37	1,104	1	1,103
Jun.	1,139	120	1,259	38,408	-28	1,287	1	1,286
Jul.	1,194	111	1,305	40,783	77	1,228	9	1,219
Aug.	1,237	86	1,323	42,271	48	1,275	15	1,260
Sep.	1,218	92	1,310	41,079	-40	1,350	34	1,316
Oct.	1,300	71	1,371	43,885	92	1,279	27	1,252
Nov.	1,305	89	1,394	44,398	18	1,376	39	1,337
Dec.	1,149	114	1,263	34,471	-320	1,583	42	1,541
1990	1,311	100	1,411	45,925	31	1,379	39	1,340
Jan.	1,340	161	1,501	36,820	76	1,426	22	1,404
Feb.	1,330	157	1,487	40,226	122	1,366	50	1,316
Mar.	1,256	118	1,374	42,364	69	1,306	17	1,289
Apr.	1,179	102	1,281	40,387	-66	1,346	11	1,335
May	1,194	117	1,311	40,074	-10	1,321	8	1,313
Jun.	1,214	123	1,337	40,357	9	1,327	7	1,320
Jul.	1,307	98	1,405	44,598	137	1,269	10	1,259
Aug.	1,250	81	1,331	42,686	-62	1,393	30	1,363
Sep.	1,339	72	1,411	43,761	36	1,374	45	1,329
Oct.	1,463	52	1,515	44,888	36	1,478	72	1,406
Nov.	1,445	59	1,504	44,705	-6	1,510	141	1,369
Dec.	1,411	66	1,477	45,925	39	1,438	60	1,378
1991(p)	1,274	50	1,324	44,068	-5	1,329	39	1,290
Jan.	1,353	47	1,400	44,492	-40	1,440	73	1,367
Feb.	1,384	29	1,413	42,088	-86	1,499	157	1,342
Mar.	1,157	52	1,209	38,710	-109	1,318	39	1,279
Apr.	1,135	61	1,196	37,982	-24	1,220	25	1,195
May	1,242	53	1,295	41,253	-30	1,324	64	1,260
Jun.	1,300	57	1,357	43,085	61	1,295	13	1,282
Jul.	1,255	60	1,315	41,350	-56	1,371	27	1,344
Aug.	1,316	57	1,373	42,427	35	1,339	11	1,328
Sep.	1,322	59	1,381	44,500	69	1,312	10	1,302
Oct.	1,253	51	1,304	42,879	-52	1,356	43	1,313
Nov.	1,276	30	1,306	43,916	35	1,272	5	1,267
Dec.	1,357	28	1,385	44,068	5	1,380	41	1,339

(a) Data prior to 1965 are not available on a comparable basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary

SOURCE: 1965-1975: U.S Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Section VII
Table 15

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1947	302	--	302	17,722	1	301	20	281
1948	333	--	333	23,941	17	316	9	307
1949	280	--	280	20,888	-8	288	7	281
1950	325	--	325	19,723	-3	328	5	323
1951	372	--	372	27,088	16	356	19	337
1952	351	--	351	26,529	-1	352	21	331
1953	337	--	337	28,684	4	333	19	314
1954	335	--	335	27,826	-2	337	13	324
1955	326	--	326	26,770	-3	329	9	320
1956	342	--	342	31,420	12	330	9	321
1957	303	--	303	29,200	-6	309	14	295
1958	305	--	305	26,040	-8	313	3	310
1959(b)	305	--	305	26,856	1	304	3	301
1960(c)	374	--	374	31,445	10	364	2	362
1961	391	8	399	32,433	3	396	1	395
1962	431	18	449	31,725	-2	451	1	450
1963	454	24	478	34,102	4	474	2	472
1964	463	31	494	36,165	6	488	--	488
1965(d)	259	--	259	24,080	-9	268	1	267
1966	279	1	280	25,004	2	278	1	277
1967(e)	274	--	274	25,366	--	274	--	274
1968	278	--	278	23,480	-5	283	2	281
1969	282	3	285	26,780	9	276	1	275
1970	262	4	266	27,848	3	263	--	263
1971	240	1	241	24,438	-9	250	1	249
1972	219	1	220	19,111	-16	236	--	236
1973	220	2	222	21,022	6	216	--	216
1974	156	5	161	15,269	-15	176	--	176
1975	152	3	155	15,571	-4	159	--	159
1976	152	9	161	12,514	-8	169	--	169
1977	171	19	190	18,056	15	175	--	175
1978	154	11	165	14,330	-10	175	--	175
1979	183	9	192	15,824	4	189	--	189
1980	137	10	147	11,570	-12	159	--	159
1981	119	7	126	11,042	-1	127	--	127
1982	115	13	128	10,420	-2	130	1	129
1983	110	11	121	7,861	-8	128	1	127
1984	114	12	126	11,893	11	115	--	115

See notes and sources at end of table

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1985	94	8	102	7,502	-12	114	--	114
Jan.	100	10	110	7,905	-129	239	--	239
Feb.	135	12	147	7,124	-28	175	--	175
Mar.	97	4	101	8,095	31	70	--	70
Apr.	69	0	69	7,926	-6	74	--	74
May	43	2	45	7,326	-19	64	--	64
Jun.	59	5	64	6,794	-18	81	--	81
Jul.	77	1	78	7,596	26	52	--	52
Aug.	91	9	100	7,951	11	89	--	89
Sep.	102	0	102	8,701	25	76	--	76
Oct.	117	11	128	9,648	31	97	--	97
Nov.	115	16	131	10,489	28	103	1	102
Dec.	131	23	154	7,502	-96	250	--	250
1986	89	13	102	8,379	2	100	2	98
Jan.	135	29	164	7,272	-7	171	1	170
Feb.	120	1	121	6,735	-19	140	--	140
Mar.	96	11	107	6,179	-18	125	--	125
Apr.	76	0	76	6,837	22	55	1	54
May	47	2	49	6,258	-19	68	0	68
Jun.	45	0	45	6,652	13	31	1	30
Jul.	62	7	69	6,881	7	62	0	62
Aug.	73	26	99	6,859	-1	99	0	99
Sep.	91	16	107	8,344	50	58	1	57
Oct.	91	14	105	8,277	-2	108	8	100
Nov.	107	19	126	8,502	8	118	0	118
Dec.	131	30	161	8,379	-4	165	8	157
1987	79	17	96	8,447	--	96	1	95
Jan.	128	33	161	8,515	4	157	0	157
Feb.	79	36	115	7,578	-33	148	0	148
Mar.	61	9	70	6,523	-34	105	0	105
Apr.	46	9	55	6,851	11	43	0	43
May	38	3	41	6,617	-8	48	0	48
Jun.	38	4	42	6,089	-18	60	0	60
Jul.	53	12	65	6,512	14	51	0	51
Aug.	66	18	84	7,055	18	66	1	65
Sep.	90	13	103	7,989	31	72	0	72
Oct.	118	30	148	8,719	24	125	0	125
Nov.	117	12	129	9,270	18	111	1	110
Dec.	107	29	136	8,447	-27	163	10	153

See notes and sources at end of table

Section VII
Table 15b

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1988	79	16	95	7,284	-3	97	1	96
Jan.	104	33	137	7,193	-40	177	0	177
Feb.	118	20	138	6,963	-8	145	4	141
Mar.	68	14	82	6,363	-19	102	1	101
Apr.	50	8	58	6,033	-11	68	0	68
May	48	2	50	5,471	-18	68	0	68
Jun.	55	9	64	5,970	17	47	0	47
Jul.	64	0	64	6,211	8	56	0	56
Aug.	81	8	89	7,168	31	57	0	57
Sep.	80	13	93	7,476	10	1	1	81
Oct.	80	28	108	8,030	18	89	2	87
Nov.	99	23	122	8,138	4	2	2	117
Dec.	100	29	129	7,284	-28	156	2	154
1989	74	7	81	5,139	-6	86	2	84
Jan.	110	34	144	7,396	4	140	1	139
Feb.	70	5	75	5,909	-53	128	0	128
Mar.	76	3	79	5,747	-5	84	0	84
Apr.	67	2	69	5,828	3	65	0	65
Jun.	70	1	71	5,840	5	65	0	65
Jul.	55	0	55	6,045	7	49	0	49
Aug.	56	0	56	6,513	15	41	0	41
Sep.	81	1	82	7,565	36	46	2	44
Oct.	74	13	87	7,524	-2	89	0	89
Nov.	94	16	110	7,509	--	110	8	102
Dec.	86	6	92	5,139	-77	169	14	155
1990	45	5	50	5,576	1	48	5	43
Jan.	92	24	116	6,035	29	86	0	86
Feb.	64	6	70	5,315	-26	96	1	95
Mar.	38	1	39	5,006	-10	50	2	48
Apr.	41	6	47	5,006	0	47	1	46
May	21	0	21	5,185	6	16	0	16
Jun.	-4	8	4	4,926	-9	13	1	12
Jul.	43	1	44	5,756	27	16	0	16
Aug.	32	1	33	5,547	-7	40	0	40
Sep.	53	1	54	6,210	22	31	0	31
Oct.	49	1	50	6,388	6	44	26	18
Nov.	55	2	57	6,429	1	55	32	23
Dec.	52	5	57	5,576	-28	85	2	83

See notes and sources at end of table

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1991(p)	38	12	50	5,768	0	50	3	47
Jan.	79	9	88	5,455	-15	102	1	101
Feb.	62	2	64	4,984	-17	80	24	56
Mar.	22	1	23	4,233	-24	47	1	46
Apr.	35	4	39	4,265	1	39	1	38
May	44	5	49	4,241	-11	60	7	53
Jun.	25	6	31	4,676	15	17	1	16
Jul.	24	3	27	5,059	12	15	1	14
Aug.	14	1	15	4,936	-4	19	1	18
Sep.	28	1	29	5,606	22	6	1	5
Oct.	37	15	52	6,387	25	26	2	24
Nov.	55	45	100	5,920	-16	115	1	114
Dec.	56	47	103	5,768	-5	108	0	108

(a) Totals may not add due to independent rounding.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) These figures and those through 1964 include commercial jet fuel.
(d) These figures and those for subsequent years exclude kerosine-type jet fuel.
(e) Beginning with 1967 production at refineries and at plants are combined in one total.
(p) Preliminary

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply			Demand				
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1947	413	--	413	4,295	-2	415	17	398
1948	464	--	464	6,172	3	461	14	447
1949	494	--	494	7,358	2	491	15	476
1950	578	--	578	8,012	2	576	7	569
1951	651	--	651	8,854	2	649	10	639
1952	695	--	695	8,445	-1	696	11	685
1953	745	--	745	11,220	8	737	11	726
1954	785	--	785	14,979	11	774	12	762
1955	890	--	890	14,596	-1	891	12	879
1956	942	--	942	21,952	20	922	12	910
1957	954	--	954	23,480	4	950	13	937
1958	965	--	965	24,959	8	957	8	949
1959(b)	1,067	--	1,067	27,407	7	1,060	5	1,055
1960	1,141	5	1,146	32,554	14	1,132	8	1,124
1961	1,207	5	1,212	43,365	29	1,183	10	1,173
1962	1,232	6	1,238	36,154	-20	1,258	11	1,247
1963	1,359	7	1,366	37,633	4	1,362	12	1,350
1964	1,446	11	1,457	39,371	5	1,452	15	1,437
1965	1,502	21	1,523	39,542	--	1,523	22	1,501
1966	1,575	29	1,604	43,759	12	1,592	24	1,568
1967	1,715	27	1,742	69,947	74	1,668	25	1,643
1968	1,826	32	1,858	81,086	32	1,826	29	1,797
1969	1,928	35	1,963	65,306	-45	2,008	35	1,973
1970	2,005	52	2,057	74,089	25	2,032	27	2,005
1971	2,050	106	2,156	100,889	73	2,083	26	2,057
1972	2,100	174	2,274	91,792	-25	2,299	31	2,268
1973	2,113	239	2,352	106,476	41	2,311	27	2,284
1974	2,026	211	2,237	120,092	37	2,200	25	2,175
1975	1,944	185	2,129	132,653	34	2,095	26	2,069
1976	1,944	197	2,141	124,518	-22	2,163	25	2,138
1977	1,970	203	2,173	144,902	56	2,117	18	2,099
1978	1,921	139	2,060	140,052	-42	2,101	20	2,081
1979	1,924	230	2,154	125,289	-40	2,187	15	2,172
1980	1,897	216	2,113	137,551	34	2,079	21	2,058
1981	1,905	254	2,159	150,170	11 (c)	2,148	42	2,106
1982	1,809	247	2,056	105,077	-124	2,180	65	2,115
1983	1,875	205	2,080	116,532	470	1,610	73	1,537
1984	1,989	241	2,230	108,446	-22	1,753	51	1,702

See notes and sources at end of table

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1985	1,986	235	2,221	81,707	-73	1,785	64	1,721
Jan.	1,948	284	2,232	96,294	-424	2,127	72	2,055
Feb.	1,967	253	2,220	86,644	-309	2,005	74	1,931
Mar.	1,956	269	2,225	86,001	21	1,752	52	1,700
Apr.	1,976	172	2,148	90,221	141	1,538	80	1,458
May	1,995	221	2,216	96,365	198	1,562	40	1,522
Jun.	2,016	250	2,266	101,922	185	1,617	53	1,564
Jul.	2,001	190	2,191	105,910	129	1,607	70	1,537
Aug.	2,000	182	2,182	108,896	96	1,594	82	1,512
Sep.	1,954	188	2,142	106,667	-74	1,691	29	1,662
Oct.	1,950	271	2,221	97,102	-309	1,970	47	1,923
Nov.	2,001	220	2,221	91,816	-176	1,802	93	1,709
Dec.	2,063	322	2,385	81,707	-326	2,165	77	2,088
1986	1,963	265	2,228	109,532	76	1,674	45	1,629
Jan.	2,128	303	2,431	78,770	-95	1,995	47	1,948
Feb.	2,094	224	2,318	76,170	-93	1,914	80	1,834
Mar.	1,965	220	2,185	78,231	66	1,689	51	1,638
Apr.	1,904	156	2,060	84,220	200	1,419	36	1,383
May	1,962	221	2,183	95,798	373	1,363	43	1,320
Jun.	1,919	302	2,221	111,458	522	1,296	25	1,271
Jul.	1,961	315	2,276	126,110	473	1,435	53	1,382
Aug.	1,889	281	2,170	134,938	285	1,458	56	1,402
Sep.	1,901	314	2,215	138,796	129	1,610	29	1,581
Oct.	1,888	276	2,164	131,785	-226	1,890	26	1,864
Nov.	1,985	322	2,307	122,639	-305	2,016	58	1,958
Dec.	1,976	238	2,214	109,532	-423	2,007	35	1,972
1987	2,040	201	2,241	104,119	-15	1,789	40	1,749
Jan.	2,014	203	2,217	94,979	-502	2,143	46	2,097
Feb.	2,035	215	2,250	88,728	-188	1,948	40	1,908
Mar.	2,037	145	2,182	88,569	-5	1,755	54	1,701
Apr.	2,049	170	2,219	92,705	138	1,658	39	1,619
May	2,023	147	2,170	101,897	297	1,444	36	1,408
Jun.	2,035	131	2,166	107,974	203	1,559	22	1,537
Jul.	2,070	201	2,271	112,761	154	1,693	32	1,661
Aug.	2,020	199	2,219	120,211	240	1,548	35	1,513
Sep.	2,034	289	2,323	122,768	85	1,812	58	1,754
Oct.	2,040	241	2,281	120,373	-77	1,889	23	1,866
Nov.	2,067	243	2,310	116,176	-140	1,927	37	1,890
Dec.	2,051	227	2,278	104,119	-389	2,106	59	2,047

See notes and sources at end of table

Section VII
Table 16b

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1988	2,120	221	2,341	103,988	-587	1,831	51	1,780
Jan.	2,034	237	2,271	85,937	-587	2,291	47	2,244
Feb.	2,067	270	2,337	76,632	-321	2,101	49	2,052
Mar.	2,124	176	2,300	75,802	-27	1,834	38	1,796
Apr.	2,105	216	2,321	87,564	392	1,478	45	1,433
May	2,119	174	2,293	98,374	349	1,480	39	1,441
Jun.	2,119	152	2,271	108,996	354	1,476	40	1,436
Jul.	2,154	234	2,388	121,221	394	1,560	37	1,523
Aug.	2,161	261	2,422	130,287	292	1,657	52	1,605
Sep.	2,146	200	2,346	131,040	25	1,869	45	1,824
Oct.	2,172	227	2,399	128,859	-70	1,965	58	1,907
Nov.	2,134	279	2,413	121,239	-254	2,021	75	1,946
Dec.	2,103	225	2,328	103,988	-556	2,236	87	2,149
1989	2,100	189	2,289	88,806	-43	1,833	41	1,792
Jan.	2,190	250	2,440	92,845	-359	2,186	29	2,157
Feb.	2,101	275	2,376	83,664	-328	2,182	38	2,144
Mar.	2,214	154	2,368	81,203	-79	1,984	49	1,935
Apr.	2,270	131	2,401	90,926	324	1,666	30	1,636
May	2,263	119	2,382	104,999	454	1,523	57	1,466
Jun.	2,146	157	2,303	113,302	277	1,581	48	1,533
Jul.	2,174	202	2,376	126,828	436	1,517	55	1,462
Aug.	2,107	213	2,320	136,625	316	1,570	43	1,527
Sep.	2,048	186	2,234	134,726	-63	1,795	31	1,764
Oct.	1,986	179	2,165	124,802	-320	1,925	33	1,892
Nov.	1,940	186	2,126	112,802	-400	1,905	35	1,870
Dec.	1,756	215	1,971	88,806	-774	2,155	40	2,115
1990	2,098	197	2,295	104,038	42	1,746	41	1,705
Jan.	1,981	280	2,261	85,385	-110	1,789	46	1,743
Feb.	2,054	246	2,300	84,921	-17	1,798	46	1,752
Mar.	2,067	159	2,226	87,398	80	1,772	45	1,727
Apr.	2,050	155	2,205	89,994	87	1,743	27	1,716
May	2,070	217	2,287	99,075	293	1,611	37	1,574
Jun.	2,028	205	2,233	113,609	484	1,368	29	1,339
Jul.	2,068	160	2,228	122,875	299	1,531	38	1,493
Aug.	2,143	267	2,410	133,699	349	1,650	43	1,607
Sep.	2,103	153	2,256	133,589	-4	1,785	42	1,743
Oct.	2,094	169	2,263	125,421	-263	1,999	39	1,960
Nov.	2,042	157	2,199	116,139	-309	1,916	41	1,875
Dec.	1,995	194	2,189	104,038	-390	1,986	60	1,926

See notes and sources at end of table

Section VII
Table 16c

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change In Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1991(p)	2,152	145	2,297	98,420	-16	1,854	42	1,812
Jan.	2,022	140	2,162	82,130	-709	2,325	56	2,269
Feb.	2,145	130	2,275	74,960	-256	2,055	60	1,995
Mar.	2,203	90	2,293	79,101	134	1,757	58	1,699
Apr.	2,203	159	2,362	90,300	373	1,603	32	1,571
May	2,249	132	2,381	104,332	453	1,542	46	1,496
Jun.	2,220	154	2,374	115,576	375	1,588	34	1,554
Jul.	2,185	151	2,336	120,295	152	1,770	25	1,745
Aug.	2,175	142	2,317	125,668	89	1,794	41	1,753
Sep.	2,104	146	2,250	124,270	-47	1,849	31	1,818
Oct.	2,099	176	2,275	124,252	-1	1,785	31	1,754
Nov.	2,101	157	2,258	113,099	-372	2,079	40	2,039
Dec.	2,120	166	2,286	98,420	-474	2,177	73	2,104

(a) Prior to 1960 figures included with gasoline.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) The U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 146,145 thousand barrels. This figure was used to compute the 1981 stock change.
(d) Total demand excludes volume used as refinery inputs.
(e) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Section VII
Table 17

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1947	141	--	141	8,624	2	139	41	98
1948	140	--	140	9,843	5	135	37	98
1949	124	--	124	9,219	-2	126	35	91
1950	141	--	141	7,849	-4	145	39	106
1951	168	--	168	9,617	4	164	48	116
1952	151	--	151	11,021	3	148	44	104
1953	144	--	144	10,070	-2	146	35	111
1954	145	--	145	9,702	-1	146	41	105
1955	153	--	153	8,763	-3	156	39	117
1956	161	--	161	10,183	3	158	38	120
1957	152	--	152	10,864	1	151	38	113
1958	140	--	140	9,687	-3	143	35	108
1959(a)	154	--	154	8,950	-2	156	38	118
1960	162	--	162	9,874	2	160	43	117
1961	162	--	162	12,943	2	160	47	113
1962	168	--	168	13,130	--	168	48	120
1963	173	--	173	14,321	3	170	50	120
1964	174	--	174	14,062	-1	175	50	125
1965	172	--	172	13,304	-2	174	45	129
1966	179	--	179	12,682	-2	181	47	134
1967	178	--	178	14,774	6	172	51	121
1968	180	--	180	14,023	-2	182	49	133
1969	178	1	179	14,088	--	179	45	134
1970	181	1	182	14,712	2	180	44	136
1971	179	--	179	15,049	1	178	43	135
1972	179	1	180	13,271	-5	185	41	144
1973	188	6	194	12,186	-3	197	35	162
1974	194	5	199	16,060	11	188	33	155
1975	154	3	157	14,337	-5	162	25	137
1976	169	4	173	12,274	-5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	-	198	27	171
1979	194	9	203	12,549	1	202	23	179
1980	178	7	185	13,483	3	183	23	160
1981	166	8	174	14,304	2	172	19	153
1982	141	10	151	12,531	-5	156	16	140
1983	147	11	158	12,080	-3	162	16	146
1984	159	13	172	12,724	2	171	15	156

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1985	145	13	158	11,827	-2	160	15	145
Jan.	145	12	157	12,931	7	150	14	136
Feb.	149	18	167	12,700	-8	175	12	163
Mar.	147	11	158	12,462	-8	167	16	151
Apr.	149	9	158	11,937	-18	175	13	162
May	153	20	173	11,938	2	173	14	159
Jun.	156	14	170	12,203	9	160	9	151
Jul.	149	10	159	12,469	9	151	13	138
Aug.	152	16	168	12,220	-8	177	17	160
Sep.	154	6	160	12,456	8	153	15	138
Oct.	150	15	165	12,165	-9	174	20	154
Nov.	114	12	126	11,556	-20	146	21	125
Dec.	126	9	135	11,827	9	126	17	109
1986	159	12	171	14,164	6	165	23	142
Jan.	161	16	177	14,431	84	93	19	74
Feb.	168	11	179	14,916	17	161	20	141
Mar.	145	12	157	14,029	-29	186	21	165
Apr.	162	19	181	14,060	1	180	21	159
May	173	14	187	13,982	-3	190	21	169
Jun.	160	9	169	13,586	-13	183	17	166
Jul.	145	14	159	13,255	-11	169	27	142
Aug.	161	5	166	13,279	1	164	23	141
Sep.	163	10	173	13,015	-9	182	21	161
Oct.	154	14	168	12,511	-16	184	30	154
Nov.	167	14	181	13,282	26	155	25	130
Dec.	155	4	159	14,164	28	151	25	126
1987	167	14	181	13,271	-2	184	23	161
Jan.	163	13	176	14,249	3	173	17	156
Feb.	158	16	174	13,691	-20	193	25	168
Mar.	161	12	173	12,953	-24	197	24	173
Apr.	172	14	186	12,455	-17	202	22	180
May	159	9	168	12,122	-11	179	25	154
Jun.	176	17	193	11,675	-15	208	24	184
Jul.	171	23	194	11,705	1	193	28	165
Aug.	168	13	181	11,900	6	175	22	153
Sep.	171	16	187	12,169	9	178	21	157
Oct.	173	12	185	12,620	15	171	21	150
Nov.	173	14	187	13,648	34	152	22	130
Dec.	156	13	169	13,271	-12	182	22	160

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1988	170	11	181	13,316	-	181	26	155
Jan.	164	13	177	14,060	25	151	19	132
Feb.	174	14	188	13,905	-5	193	23	170
Mar.	188	13	201	14,040	4	196	26	170
Apr.	178	12	190	14,095	2	188	34	154
May	180	13	193	13,879	-7	200	25	175
Jun.	182	7	189	13,934	2	187	34	153
Jul.	168	10	178	14,093	5	174	26	148
Aug.	170	7	177	13,671	-14	191	26	165
Sep.	144	11	155	12,541	-38	192	30	162
Oct.	168	11	179	12,783	8	171	18	153
Nov.	165	8	173	12,512	-9	183	23	160
Dec.	161	10	171	13,316	26	146	31	115
1989	168	11	179	13,826	1	178	19	159
Jan.	180	12	192	14,412	35	157	14	143
Feb.	171	14	185	14,408	--	184	18	166
Mar.	177	13	190	13,968	-14	205	17	188
Apr.	164	7	171	13,738	-8	178	18	160
May	180	15	195	13,222	-17	212	16	196
Jun.	175	13	188	13,185	-1	189	16	173
Jul.	185	11	196	14,385	39	158	23	135
Aug.	172	12	184	14,480	3	180	19	161
Sep.	160	7	167	14,261	-7	173	17	156
Oct.	142	9	151	13,268	-32	183	17	166
Nov.	168	10	178	13,346	3	176	29	147
Dec.	146	9	155	13,826	15	139	20	119
1990	168	12	180	12,373	-4	184	20	164
Jan.	157	12	169	13,585	-8	176	16	160
Feb.	166	14	180	12,992	-21	201	15	186
Mar.	162	11	173	12,266	-23	197	18	179
Apr.	173	7	180	12,361	3	177	30	147
May	165	27	192	12,321	-1	193	18	175
Jun.	155	7	162	12,351	1	161	21	140
Jul.	175	12	187	12,436	3	184	14	170
Aug.	173	10	183	11,452	-32	215	21	194
Sep.	179	11	190	11,239	-7	197	21	176
Oct.	161	11	172	10,347	-29	201	26	175
Nov.	185	11	196	11,404	35	161	18	143
Dec.	161	8	169	12,373	31	138	18	120

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1991(p)	156	7	174	12,326	0	171	18	146
Jan.	167	7	174	12,468	3	171	16	155
Feb.	160	2	162	13,302	30	132	15	117
Mar.	162	5	167	13,711	13	154	17	137
Apr.	152	6	158	13,408	-10	168	17	151
May	160	10	170	13,190	-7	177	21	156
Jun.	165	6	171	13,169	-1	172	19	153
Jul.	154	12	166	12,625	-18	183	17	166
Aug.	152	7	159	12,673	2	157	19	138
Sep.	165	4	169	12,737	2	167	17	150
Oct.	144	7	151	12,222	-17	168	18	150
Nov.	142	7	149	12,053	-6	154	18	136
Dec.	153	12	165	12,326	9	155	19	136

(a) These figures and those for subsequent years are on a 50 state basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1984

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	526	67	593	20,378	-3	596	5	588
Propane (a)	807	67	874	57,803	7	867	30	833
Normal Butane (a)	265	37	302	13,681	-18	320	10	143
Isobutane (a)	99	24	123	8,987	-5	128	3	7
Total LPG's (a)	1,697	195	1,892	100,849	-19	1,911	48	1,572
Pentanes Plus (a)	292	46	338	7,597	-3	341	3	129
Total NGL's & LRG's (a)	1,989	241	2,230	108,446	-22	2,252	51	1,702
Petrochemicals	351	33	384	3,347	0	384	21	364
Lubricants	159	13	172	12,724	2	170	15	156
Asphalt & Road Oil	386	18	404	17,183	-4	408	1	408
Petroleum Coke	439	0	439	4,839	-2	441	193	247
Miscellaneous Products(c)	688	66	754	5,751	0	754	4	749
Total Other Oils (a)	4,012	371	4,383	152,290	-26	4,409	285	3,626

1985

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	507	48	555	11,765	-24	580	3	575
Propane (a)	816	67	883	39,474	-50	934	48	883
Normal Butane (a)	253	43	296	14,157	4	292	9	117
Isobutane (a)	126	28	154	7,313	-5	160	2	24
Total LPG's (a)	1,704	187	1,891	72,709	-75	1,965	62	1,599
Pentane Plus (a)	282	49	333	8,189	2	330	2	123
Total NGL's & LRG's (a)	1,986	235	2,221	80,898	-73	2,294	64	1,721
Petrochemicals	356	23	379	3,116	-1	380	19	361
Lubricants	145	13	158	11,657	-2	160	15	145
Asphalt & Road Oil	401	35	436	21,207	11	425	0	425
Petroleum Coke	455	0	455	6,159	4	451	187	264
Miscellaneous Products(c)	718	37	755	8,620	2	753	3	750
Total Other Oils (a)	4,061	343	4,404	131,657	-59	4,463	288	3,666

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1986

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	493	19	512	15,421	10	502	5	495
Propane (a)	817	110	927	62,852	64	863	28	831
Normal Butane (a)	253	68	321	15,859	2	319	7	146
Isobutane (a)	133	45	178	8,526	3	175	2	41
Total LPG's (a)	1,694	242	1,936	10,265	80	1,856	42	1,512
Pentanes Plus (a)	269	23	292	6,874	-4	296	2	116
Total NGL's & LRG's (a)	1,963	265	2,228	10,953	76	2,152	45	1,629
Petrochemicals	404	85	489	3,986	3	486	22	465
Lubricants	159	12	171	14,164	6	165	23	142
Asphalt & Road Oil	410	29	439	17,707	-10	449	1	448
Petroleum Coke	506	1	507	6,030	--	506	238	268
Miscellaneous Products(c)	776	20	796	7,720	5	791	3	789
Total Other Oils (a)	4,218	412	4,630	15,913	80	4,549	332	3,741

1987

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane(a)	509	3	512	22,261	19	493	4	486
Propane(a)	828	88	916	47,792	-41	957	24	924
Normal Butane(a)	260	60	320	16,542	2	318	8	151
Isobutane(a)	152	40	192	10,499	5	187	2	50
Total LPG's(a)	1,749	190	1,939	97,094	-15	1,954	38	1,612
Pentanes Plus(a)	291	11	302	7,025	--	302	2	138
Total NGL's & LRG's(a)	2,040	201	2,241	104,119	-15	2,256	40	1,749
Petrochemicals	384	79	463	3,938	-1	463	20	443
Lubricants	167	14	181	13,271	-2	184	23	161
Asphalt & Road Oil	434	36	470	18,799	3	468	1	467
Petroleum Coke	512	1	513	6,750	2	512	213	299
Miscellaneous Products(c)	783	23	806	8,278	2	805	5	800
Total Other Oils(a)	4,320	354	4,674	155,155	-11	4,688	302	3,919

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1988

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	511	3	514	17,872	-12	526	4	520
Propane (a)	863	106	969	50,427	7	962	31	923
Normal Butane (a)	285	65	350	21,009	12	338	11	163
Isobutane (a)	157	35	192	8,031	-7	199	2	50
Total LPG's (a)	1,818	209	2,027	97,339	1	2,026	49	1,656
Pentanes Plus (a)	302	11	313	6,649	-1	314	2	124
Total NGL's & LRG's (a)	2,120	221	2,341	103,988	-	2,341	51	1,780
Petrochemicals	335	147	482	3,704	-1	483	23	459
Lubricants	170	11	181	13,316	0	181	26	155
Asphalt & Road Oil	443	31	474	20,817	6	468	1	468
Petroleum Coke	544	2	546	7,790	3	543	231	312
Miscellaneous Products(c)	821	11	832	7,470	-2	834	10	825
Total Other Oils (a)	4,433	423	4,856	157,085	6	4850	342	3,999

1989

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	478	8	486	23,828	16	470	0	465
Propane (a)	863	111	974	31,528	-52	1,026	24	990
Normal Butane (a)	288	48	336	16,804	-12	348	11	188
Isobutane (a)	162	14	176	8,070	-	176	0	25
Total LPG's (a)	1,791	181	1,972	80,230	-47	2,019	35	1,668
Pentanes Plus (a)	309	8	317	8,576	5	312	6	122
Total NGL's & LRG's (a)	2,100	188	2,288	88,806	-42	2,330	41	1,790
Petrochemicals	342	144	486	3,961	1	485	26	460
Lubricants	168	11	179	13,826	1	178	19	159
Asphalt & Road Oil	424	31	455	20,560	-1	456	3	453
Petroleum Coke	542	1	543	8,600	2	541	233	307
Miscellaneous Products(c)	827	12	839	6,447	-2	841	16	826
Total Other Oils (a)	4,403	387	4,790	142,200	-41	4,831	338	3,995

See notes and sources at end of table

Section VII
Table 18c

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1990

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	493	7	500	19,874	-11	510	0	510
Propane (a)	878	115	993	48,915	48	945	28	917
Normal Butane (a)	216	50	266	19,321	7	259	12	110
Isobutane (a)	162	16	178	9,798	5	174	0	19
Total LPG's (a)	1,749	188	1,937	97,908	48	1,888	40	1,556
Pentanes Plus (a)	309	9	318	6,130	-7	325	2	148
Total NGL's & LRG's (a)	2,058	197	2,255	104,038	42	2,213	41	1,705
Petrochemicals	405	155	560	3,514	-1	563	26	537
Lubricants	168	12	180	12,373	-4	184	20	164
Asphalt & Road Oil	449	32	481	18,732	-5	486	3	483
Petroleum Coke	552	2	554	7,181	-4	559	220	339
Miscellaneous Products(c)	810	14	824	6,305	0	824	14	810
Total Other Oils (a)	4,442	412	4,854	152,143	28	4,829	324	4,038

1991(p)

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	546	8	554	17,285	-8	562	0	562
Propane (a)	906	84	990	46,937	-4	994	28	966
Normal Butane (a)	210	35	245	18,880	-2	108	14	94
Isobutane (a)	169	10	179	8,035	-5	30	0	30
Total LPG's (a)	1,830	136	1,966	91,137	-19	1,693	41	1,652
Pentanes Plus (a)	322	9	331	7,283	3	159	0	159
Total NGL's & LRG's (a)	2,152	145	2,297	98,420	-16	1,854	42	1,812
Petrochemicals	418	138	556	3,217	-1	557	0	557
Lubricants	156	7	163	12,326	0	164	18	146
Asphalt & Road Oil	429	25	454	22,338	10	444	3	441
Petroleum Coke	567	2	569	9,763	6	563	235	328
Miscellaneous Products(c)	790	11	801	5,607	-2	804	17	787
Total Other Oils (a)	4,512	328	4,840	5,168	-3	4,386	315	4,071

(a) The discrepancy between total demand minus exports equals domestic demand is accounted for by refinery inputs, which are not shown here.
(b) Totals may not add due to independent rounding.
(c) Miscellaneous Products include special naphtha, waxes, still gas and miscellaneous products.

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual and Monthly.

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1960	239,800	Apr. 30	266,178	Sept. 30	231,966	
1961	244,644	May 31	261,440	Feb. 28	232,063	
1962	252,011	Nov. 30	256,284	Feb. 28	240,166	
1963	237,361	May 31	255,666	Dec. 31	237,361	
1964	230,057	May 31	257,322	Dec. 31	230,057	
1965	220,289	May 31	255,071	Dec. 31	220,289	
1966	238,391	June 30	253,388	Jan. 31	220,302	
1967	248,970	May 31	268,845	Dec. 31	248,970	
1968	272,193	Dec. 31	272,193	Jan. 31	244,946	
1969	265,227	June 30	284,544	Sept. 30	262,528	
1970	276,367	May 31	284,824	Aug. 31	254,144	
1971	259,648	May 31	284,320	Dec. 31	259,648	
1972	246,395	May 31	279,490	Dec. 31	246,395	
1973	242,478	May 31	257,867	Feb. 28	235,362	
1974	265,020	Nov. 30	271,144	Jan. 31	233,035	
1975	271,354	Apr. 30	281,908	Aug. 31	256,616	
1976	285,471	Nov. 30	298,836	Aug. 31	277,272	
1977(a)	339,857	Nov. 30	345,197	Feb. 28	291,462	7,826
1978	309,421	Mar. 31	345,482	Dec. 31	309,421	66,860
1979	339,074	Nov. 30	347,415	Jan. 31	302,059	91,191
1980	358,166	Aug. 31	387,223	Jan. 31	357,500	107,800
1981	363,464	Apr. 30	397,497	Sept. 30	355,982	230,341
1982	349,730	Feb. 28	371,762	Sept. 30	340,675	293,827
1983	343,850	Feb. 28	363,265	July 31	335,131	379,089
1984	345,376	May 31	358,995	Sept. 30	325,207	450,505
1985	320,892	May 31	356,630	Oct. 31	313,687	493,316
Jan.	336,127					457,409
Feb.	321,509					460,138
Mar.	329,624					461,617
Apr.	341,908					464,940
May	356,630					471,930
Jun.	344,058					476,571
Jul.	326,977					483,538
Aug.	318,474					487,126
Sep.	317,365					489,255
Oct.	313,687					489,881
Nov.	320,943					491,464
Dec.	320,892					493,316

See notes and sources at end of table

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1986	331,224	Oct. 31	343,892	June 30	326,654	511,565
Jan.	331,677					494,392
Feb.	331,724					495,381
Mar.	340,900					496,892
Apr.	337,791					498,781
May	328,640					499,877
Jun.	326,654					501,787
Jul.	341,798					503,400
Aug.	332,713					504,974
Sep.	337,799					506,385
Oct.	343,892					507,514
Nov.	339,084					509,471
Dec.	331,224					511,565
1987	348,995	Nov. 30	363,637	July 31	323,750	540,648
Jan.	333,029					514,910
Feb.	331,858					516,709
Mar.	332,451					519,987
Apr.	328,957					521,983
May	324,703					525,129
Jun.	327,598					527,187
Jul.	323,750					530,012
Aug.	332,468					531,978
Sep.	337,164					533,890
Oct.	355,894					535,652
Nov.	363,637					538,547
Dec.	348,995					540,648
1988	330,359					559,515
Jan.	345,583					542,720
Feb.	348,021					544,146
Mar.	354,003					544,938
Apr.	357,377					547,258
May	359,665	May 31	359,665			547,949
Jun.	358,858					550,056
Jul.	349,490					551,344
Aug.	333,564					552,145
Sep.	328,560			Sep. 30	328,560	554,659
Oct.	339,588					556,001
Nov.	337,014					558,673
Dec.	330,359					559,515

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1989	341,291					579,857
Jan.	333,912					561,519
Feb.	332,847					563,888
Mar.	326,570			Mar. 30	326,570	566,224
Apr.	339,596					568,009
May	345,614					570,403
Jun.	331,262					571,724
Jul.	333,194					574,388
Aug.	340,979					575,373
Sep.	334,888					577,131
Oct.	336,010					578,271
Nov.	351,006	Nov. 30	351,006			579,490
Dec.	341,291					579,857
1990	322,695					585,692
Jan.	349,007					580,596
Feb.	339,429					580,924
Mar.	370,845					582,279
Apr.	370,472					583,418
May	382,540					586,187
Jun.	384,223	Jun. 30	384,223			586,678
Jul.	379,461					586,678
Aug.	369,500					589,606
Sep.	342,605					589,611
Oct.	346,311					589,359
Nov.	338,727					586,017
Dec.	322,695			Dec. 31	322,695	585,692
1991(p)	324,608					568,508
Jan.	320,078			Jan. 31	320,078	585,692
Feb.	331,193					581,564
Mar.	336,772					568,482
Apr.	338,716					568,482
May	358,501	May 31	358,501			568,482
Jun.	347,588					568,488
Jul.	342,529					568,502
Aug.	345,342					568,503
Sep.	341,055					568,503
Oct.	342,740					568,505
Nov.	344,099					568,502
Dec.	324,608					568,508

(a) Stocks were first reported for the Strategic Petroleum Reserve (SPR) in October, 1977. SPR stocks are included neither in the December 31 levels nor the year's highs and lows but are reported separately in the last column.
(p) Preliminary.

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual and Monthlies.

Section VII
Table 20

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1970		1980		1983		1984	
Company	**Sales**	**Company**	**Sales**	**Company**	**Sales**	**Company**	**Sales**
Texaco	7,300.0	Exxon	7,930.6	Standard of Indiana	7,419.4	Chevron(j)	10,396.1
Shell	7,050.0	Shell	7,913.8	Shell	7,180.3	Standard of Indiana	7,714.5
Standard of New Jersey	6,656.0	Standard of Indiana	7,790.6	Exxon	7,066.9	Texaco(k)	7,693.7
Standard of Indiana	6,557.0	Mobil	6,329.2	Texaco	5,937.2	Shell	7,252.6
Gulf	6,398.0	Texaco	6,262.4	Mobil	5,768.3	Exxon	7,112.7
Mobil	5,921.0	Standard of California	6,073.8	Gulf	5,427.5	Mobil	5,786.5
Atlantic Richfield	4,979.0	Gulf	5,670.9	Standard of California	5,167.5	Atlantic Richfield	5,085.6
Standard of California	4,161.0	Atlantic Richfield	4,067.5	Atlantic Richfield	4,857.7	Unocal	3,687.0
Sun	3,721.0	Union	3,681.9	Unocal(g)	3,584.6	Phillips	2,902.5
Phillips	3,559.0	Phillips	2,978.4	Phillips	2,730.9	U.S. Steel	2,733.3
Union	2,950.0	Sun	2,888.4	Sun	2,669.9	Sun	2,654.8
Standard of Ohio(b)	2,569.0	Marathon	2,278.6	U.S. Steel	2,295.3	Southland	2,422.8
Continental(c)	2,107.0	Standard of Ohio-BP	2,227.6	Southland(h)	2,235.8	DuPont	2,053.6
Cities Service	1,839.0	Conoco	1,864.1	Standard of Ohio	2,004.5	Standard of Ohio	1,955.2
Marathon	1,552.0	Ashland	1,768.6	DuPont	1,981.5	Ashland	1,662.8
Ashland(d)	1,283.0	Getty	1,565.2	Ashland	1,715.9	Tosco	1,166.0
Getty(e)	1,108.0	Cities Service	1,517.9	Getty	1,278.4	Diamond Shamrock	1,005.6
Tenneco	838.0	Clark	1,195.8	Tosco	1,162.2	American Petrofina	990.6
Kerr-McGee(f)	690.0	Tosco	960.2	Diamond Shamrock(i)	944.2	Tenneco	793.3
Murphy	677.0	Tenneco	928.7	American Petrofina	913.5	Total	734.3
U.S. TOTAL	89,862.0	U.S. TOTAL	105,228.5	U.S. TOTAL	102,215.6	U.S. TOTAL	105,066.5

See notes and sources at end of table

Section VII
Table 20a

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1985		1986		1987		1988	
Company	Sales	Company	Sales	Company	Sales	Company	Sales
Chevron	8,423.4	Shell	8,692.1	Shell	9,074.7	Shell	9,442.8
Amoco (Standard of Indiana)	8,077.8	Amoco	8,330.2	Amoco	8,179.9	Amoco	8,317.7
Shell	7,719.4	Exxon	7,799.2	Exxon	7,608.7	Exxon	8,091.7
Exxon	7,492.9	Chevron(l)	7,620.9	Mobil	7,527.9	Mobil	7,830.3
Texaco	7,051.6	Mobil	7,136.8	Chevron	7,233.2	Chevron	7,421.9
Mobil	6,511.4	Texaco	7,102.0	Texaco	7,084.6	Texaco	7,038.3
Atlantic Richfield	4,283.1	Unocal	4,058.9	Unocal	4,118.9	Unocal	4,145.7
Union	3,979.1	Standard Oil	3,730.9	BP America (Standard)(n)	3,718.2	BP America	3,699.0
Standard Oil (Ohio)(b)	3,806.7	Phillips	3,204.4	Phillips	3,420.4	Phillips	3,681.8
Phillips	3,201.4	ARCO	2,887.7	ARCO	3,201.5	Sun(u)	3,664.0
Sun	2,690.7	Sun	2,777.7	Sun	2,917.7	ARCO	3,360.3
Southland	2,525.3	Southland	2,768.7	USX(o)	2,720.2	USX(v)	2,765.2
U.S. Steel	2,499.2	USX (U.S. Steel)	2,752.4	DuPont(p)	2,373.5	DuPont(w)	2,451.8
DuPont	2,123.4	DuPont	2,246.6	Ashland	1,898.5	Ashland	1,965.4
Ashland	1,700.1	Ashland	1,853.0	Petroleos de Venezuela(q)	1,655.3	Southland(x)	1,560.1
American Petrofina	983.6	Diamond Shamrock	1,030.4	Cumberland Farms	1,469.6	Cumberland Farms	1,420.8
Diamond Shamrock	976.3	American Petrofina	969.1	Southland(r)	1,458.5	Petroleos de Venezuela(y)	1,361.5
Tenneco	888.5	Tenneco	913.2	Coastal(m)	1,005.0	Coastal States	1,080.5
Amerada Hess	764.4	Getty Petroleum	804.1	Diamond Shamrock Refining and Marketing(s)	952.9	Diamond Shamrock	974.6
Kerr-McGee	725.6	Cumberland Farms(t)	776.2	Tenneco	929.4	American Petrofina	945.8
U.S. TOTAL	106,425.7	U.S. TOTAL	109,880.5	U.S. TOTAL	111,965.4	U.S. TOTAL	114,532.4

See notes and sources at end of table

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1989

Company	Sales
Shell	9,402.3
Amoco	8,510.5
Exxon	8,098.5
Mobil	7,832.4
Chevron	7,391.1
Texaco(z)	4,978.8
Unocal	4,144.5
BP America	3,819.9
Sun	3,704.7
Phillips	3,594.7
ARCO	3,434.6
USX(v)	2,980.5
DuPont(w)	2,421.8
Aramco(z)	2,315.4
Petroleos de Venezuela(y)	1,549.9
Southland(x)	1,456.4
Cumberland Farms	1,384.5
Coastal States	1,054.8
Diamond Shamrock	1,001.5
American Petrofina	931.8
U.S. TOTAL	115,344.9

Section VII
Table 20c

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

(a) Sales data represent net taxable gasoline gallonage sold in the U.S. by all petroleum marketers, including non-retail sales by suppliers, cooperatives, etc. Lundberg Survey, Inc. obtains data primarily from state tax collecting agencies, and also by direct inquiry.

(b) Includes sales of subsidiaries BP Oil and Boron.

(c) Includes sales under the brand names of Douglas, Kayo and Onco.

(d) Includes sales of subsidiary Northwestern Refining Company.

(e) Includes all sales by Skelly Oil Company.

(f) Includes sales under the brand name Triangle.

(g) Unocal Corporation is the parent of Union Oil Company of California.

(h) Includes Cities Service. Southland acquired the refining, marketing and transportation sections of Citgo Petroleum Corp., a subsidiary of Occidental, on September 1, 1983.

(i) Diamond Shamrock acquired Sigmor in September 1983.

(j) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure reflects this acquisition.

(k) Texaco acquired Getty Oil Company on March 1, 1984. Texaco's figures reflects this acquisition.

(l) During 1986 Chevron sold most of its petroleum marketing and distribution assets in ten northwestern states and Ohio. The primary purchaser of these operations was Cumberland Farms, Inc.

(m) Includes sales under brand names Derby and Belcher.

(n) BP America was formed in 1987 through the acquisition of the Standard Oil Company by BP North America Inc.

(o) USX's figure includes sales under the brand name Marathon and affiliated brands.

(p) DuPont's figure includes sales under the brand name Conoco and affiliated brands.

(q) Petroleos de Venezuela, the Venezuelan national oil company, owns one-half of Citgo Petroleum, and one-half of Champlin Refining Company.

(r) Southland's figure represents the Southland Corporation's 50 percent ownership of Citgo Petroleum.

(s) Diamond Shamrock Refining and marketing became an independent company on Apil 30 from Maxus Energy Corporation (the former Diamond Shamrock).

(t) Cumberland Farms purchased the Gulf assets from Chevron in 11 northeastern states. Cumberland Farms operates a division using the Gulf brand name in all states in its marketing territory, except Florida.

(u) On November 1, 1988, Sun Company acquired the assets of Atlantic Petroleum Corporation. Sun's figure includes 100 percent of Atlantic's annual motor gasoline sales of 674,481,000 gallons.

(v) USX's figure includes sales under the brand name Marathon, and affiliated brands.

(w) DuPont's figure includes sales under the brand name Conoco and affiliated brands.

(x) Southland's figure represents the Southland Corporation's 50 percent ownership of Citgo Petroleum.

(y) Petroleos de Venezuela, (PDV) the Venezuelan national oil company, owns one-half of Citgo Petroleum, in 1989 Citgo's motor gasoline sales were 2,257,377,000 gallons. In 1988 it owned half of Champlin Refining Company. On January 1, 1989, PDV acquired the other equity share of Champlin Refining Company from Union Pacific Resources.

(z) Figures for ~~both~~ Texaco and Aramco include their equity portion of the total motor gasoline sales (4,630,800,000 gallons) of Star Enterprise, a joint venture formed on December 31, 1988 between Texaco and Aramco Services (the Saudi Arabian Oil Company).

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989

Section VII
Table 21

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1986

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	46,449	3,949	18,200	9,171	3,486	4,170	7,126	92,551
Alaska	5,426	16,804	9,176	5,627	373	317	4,930	42,654
Arizona	37,845	7,923	11,324	32	2,530	2,031	544	62,228
Arkansas	27,901	2,030	13,963	6,452	962	3,968	2,178	57,492
California	279,574	76,514	75,275	64,099	15,373	20,975	54,299	586,109
Colorado	36,505	8,241	10,173	1,037	3,091	2,194	1,558	62,799
Connecticut	31,861	1,327	20,893	20,847	2,124	1,117	1,827	79,996
Delaware	7,719	1,361	3,484	4,615	609	883	3,625	22,294
Dist. of Columbia	3,877	501	2,402	1,183	31	3	54	8,051
Florida	131,094	26,045	32,552	52,969	8,240	10,756	4,713	266,370
Georgia	76,959	17,995	24,781	2,464	5,641	6,528	5,429	139,797
Hawaii	7,878	10,455	4,585	14,268	272	160	1,287	38,905
Idaho	10,894	1,204	5,914	85	544	731	162	19,533
Illinois.	108,643	2,263	35,541	9,156	6,165	36,627	26,566	224,960
Indiana	59,994	19,045	32,545	5,186	6,063	8,890	12,583	144,306
Iowa	31,356	746	16,078	612	2,038	14,011	1,804	66,645
Kansas	28,453	7,200	14,394	504	2,657	17,906	7,061	78,255
Kentucky	42,519	3,634	21,515	891	2,285	6,558	8,344	85,747
Louisiana	49,923	18,004	37,997	33,769	1,792	54,916	68,499	264,899
Maine	13,437	1,673	11,834	9,707	734	1,011	175	38,570
Maryland	46,915	3,990	17,859	6,435	5,211	1,433	3,839	85,683
Massachusetts	56,381	7,068	35,978	43,351	1,114	2,275	3,143	149,302
Michigan	96,017	7,379	26,922	4,315	3,384	19,432	12,112	169,561
Minnesota	45,777	8,026	19,011	2,160	5,480	9,568	4,542	94,565
Mississippi	28,549	5,051	15,968	12,402	1,904	3,630	5,086	72,589
Missouri	63,390	6,874	18,403	677	4,624	9,144	9,029	112,141
Montana	10,158	972	7,023	198	1,989	1,509	2,877	24,727
Nebraska	17,757	1,470	12,221	293	954	3,068	604	37,198
Nevada	12,212	6,076	5,534	612	567	1,093	133	26,225
New Hampshire	11,130	658	5,974	6,204	553	1,697	292	26,507
New Jersey	80,694	39,356	45,583	23,326	5,565	5,643	29,085	229,250
New Mexico	18,298	2,887	10,629	1,657	1,616	1,819	1,446	38,352
New York	136,801	3,994	72,094	69,562	6,[illegible]38	4,959	9,376	303,225
North Carolina	74,006	7,350	29,611	4,039	4,5[illegible]3	7,486	6,026	133,050
North Dakota	8,580	1,683	7,421	454	6[illegible]7	2,446	1,035	22,497
Ohio	111,936	10,299	37,420	2,770	7,341	17,715	20,302	207,784
Oklahoma	40,569	6,192	14,025	472	3,281	7,497	6,419	78,455
Oregon	29,947	2,811	14,904	5,707	2,225	1,712	1,878	59,183
Pennsylvania	104,105	10,166	56,210	19,790	5,956	8,400	19,312	223,941
Rhode Island	8,938	422	5,387	2,921	1,479	583	188	19,918
South Carolina	39,284	3,324	12,295	1,580	2,068	2,928	4,989	66,467
South Dakota	9,004	601	6,096	72	815	2,481	142	19,210
Tennessee	60,297	6,126	23,131	700	4,158	3,971	9,949	108,332
Texas	209,517	61,753	95,477	34,376	13,645	217,014	147,772	799,555
Utah	17,541	4,445	7,332	1,496	1,295	1,546	2,389	36,045
Vermont	5,966	160	4,167	298	419	862	60	11,957
Virginia	65,166	13,363	29,847	9,870	4,444	3,379	4,795	130,911
Washington	46,951	17,301	23,528	16,428	2,404	2,833	10,901	120,346
West Virginia	18,653	269	7,971	747	565	910	16,790	45,904
Wisconsin	47,422	1,670	22,049	1,242	2,055	8,262	3,404	86,104
Wyoming	7,152	194	6,907	800	1,604	2,150	2,463	21,272
TOTAL U.S.	2,567,400	488,900	1,099,600	517,700	163,600	552,100	553,100	5,942,400

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1987

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	48,421	4,015	20,902	10,821	4,564	4,784	8,251	101,759
Alaska	5,190	15,058	9,562	1,658	257	281	4,444	36,451
Arizona	39,180	8,581	10,664	112	2,492	2,037	615	63,681
Arkansas	28,509	2,155	14,141	2,664	1,018	3,612	2,344	54,443
California	292,232	80,941	74,324	61,449	16,458	21,290	55,333	602,028
Colorado	36,111	8,525	9,928	209	3,110	2,278	1,838	61,999
Connecticut	32,353	1,839	21,533	17,986	2,139	1,457	1,900	79,205
Delaware	7,867	1,303	4,036	3,939	573	962	3,761	22,440
Dist. of Columbia	4,236	–	1,945	1,110	31	4	61	7,386
Florida	137,457	27,280	33,564	41,249	7,583	8,456	4,803	260,392
Georgia	79,934	19,909	26,159	2,233	5,977	6,167	5,453	145,832
Hawaii	8,167	11,730	4,060	13,377	397	177	1,563	39,470
Idaho	10,702	1,230	6,392	387	499	604	183	19,999
Illinois	110,253	2,156	34,396	7,127	6,315	42,328	28,807	231,382
Indiana	63,170	19,519	32,177	3,751	7,600	9,452	14,378	150,047
Iowa	31,614	889	15,859	124	1,788	8,938	1,925	61,137
Kansas	29,085	4,406	16,776	367	2,614	16,894	7,620	77,761
Kentucky	42,886	4,869	21,105	890	2,701	7,673	10,041	90,165
Louisiana	48,106	19,006	37,774	43,582	2,275	51,530	73,892	276,165
Maine	14,072	1,866	12,368	7,800	852	1,220	197	38,376
Maryland	48,104	3,858	18,770	7,955	4,823	1,653	4,762	89,923
Massachusetts	57,559	7,973	38,148	34,946	1,479	2,469	3,326	145,900
Michigan	98,925	8,613	25,691	3,418	3,506	19,822	12,898	172,872
Minnesota	46,910	5,834	18,345	1,261	5,860	7,601	5,132	90,942
Mississippi	29,241	7,770	17,978	2,607	2,174	3,795	5,883	69,449
Missouri	63,611	7,597	19,337	709	4,351	8,632	9,939	114,175
Montana	10,234	800	6,562	139	1,642	1,679	3,641	24,698
Nebraska	17,844	1,463	12,390	274	1,241	4,752	649	38,614
Nevada	13,045	6,532	6,518	465	864	949	153	28,527
New Hampshire	11,819	672	7,808	5,051	779	1,966	312	28,406
New Jersey	81,137	43,524	44,575	17,588	5,312	6,480	30,384	228,999
New Mexico	18,897	3,070	11,601	602	2,069	1,599	1,620	39,456
New York	142,598	3,030	75,451	69,492	6,553	5,275	11,090	313,490
North Carolina	76,542	7,967	30,478	4,447	4,022	8,538	6,607	138,600
North Dakota	8,816	1,283	6,826	371	884	2,284	1,159	21,623
Ohio	115,823	11,039	34,801	2,166	9,006	17,825	22,774	213,432
Oklahoma	38,642	7,619	14,016	346	2,729	6,422	7,310	77,084
Oregon	30,579	3,055	16,212	4,312	2,140	1,529	2,601	60,427
Pennsylvania	106,382	10,677	59,395	19,369	6,572	8,092	21,437	231,924
Rhode Island	9,119	570	6,118	1,959	1,773	622	212	20,371
South Carolina	38,973	3,312	12,628	1,663	2,425	3,455	5,650	68,108
South Dakota	8,995	749	5,932	57	674	3,319	161	19,888
Tennessee	62,989	5,872	23,182	334	4,565	3,484	10,336	110,762
Texas	204,864	85,712	97,595	36,551	12,601	254,648	155,092	847,062
Utah	17,582	5,068	6,791	2,167	1,429	1,622	2,680	37,339
Vermont	6,514	202	4,550	239	491	1,054	77	13,127
Virginia	69,733	14,506	30,735	8,725	4,406	3,945	5,073	137,123
Washington	51,133	18,871	21,505	11,125	2,269	3,439	15,211	123,552
West Virginia	19,293	246	9,297	379	537	920	17,031	47,702
Wisconsin	47,381	1,531	21,252	1,232	2,396	7,651	3,684	85,126
Wyoming	7,261	253	8,780	720	1,469	2,619	2,801	23,902
TOTAL U.S.	2,630,100	514,500	1,120,300	461,500	170,300	588,300	597,100	6,082,700

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1988

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	Propane	All Other	Total Products
Alabama	48,151	2,029	23,390	13,001	4,132	4,881	8,306	103,890
Alaska	5,325	17,306	8,848	516	698	284	5,292	38,270
Arizona	40,289	8,664	10,538	35	2,683	1,757	503	64,538
Arkansas	29,578	2,321	15,108	1,690	1,373	3,089	2,400	56,560
California	304,020	83,932	84,804	60,717	15,343	22,157	62,264	633,235
Colorado	36,437	6,627	11,262	50	3,552	2,631	1,959	62,515
Connecticut	32,881	2,204	23,314	20,944	1,853	1,538	1,677	84,612
Delaware	8,195	1,380	4,009	5,750	410	1,047	4,161	24,953
Dist. of Columbia	4,364	5	1,875	1,110	33	5	59	7,451
Florida	141,915	32,843	34,958	49,879	7,931	8,220	4,699	280,444
Georgia	83,630	20,522	28,078	2,333	6,048	6,955	5,320	152,886
Hawaii	8,407	12,253	5,915	15,289	351	190	2,012	44,500
Idaho	11,219	1,230	6,515	252	402	731	177	20,526
Illinois	116,201	4,143	33,977	6,194	5,604	46,634	31,441	244,193
Indiana	64,225	16,978	29,385	3,383	6,941	9,872	15,920	146,683
Iowa	32,552	858	16,042	277	2,213	10,110	1,871	63,924
Kansas	30,859	4,324	16,829	863	4,378	19,499	8,748	85,300
Kentucky	44,191	5,047	25,571	612	2,616	8,054	10,440	96,539
Louisiana	48,882	21,546	43,595	45,192	2,398	49,943	80,432	291,987
Maine	15,388	2,169	14,176	10,172	1,586	1,625	190	45,307
Maryland	49,190	4,575	19,256	9,356	4,350	1,733	4,575	93,034
Massachusetts	59,422	9,447	36,959	36,378	1,763	2,403	3,225	149,597
Michigan	102,502	8,826	20,056	4,973	2,876	21,140	12,854	181,228
Minnesota	48,877	5,308	20,048	1,373	4,897	8,244	6,175	94,922
Mississippi	29,517	8,135	20,622	8,124	2,627	4,258	6,886	80,167
Missouri	64,948	7,469	21,315	815	5,657	9,757	9,853	119,813
Montana	10,456	916	6,311	991	1,473	1,483	4,041	25,670
Nebraska	18,634	1,601	14,063	437	1,262	5,371	642	42,010
Nevada	14,078	6,536	6,848	925	931	1,117	161	30,596
New Hampshire	12,337	762	7,031	5,993	430	2,163	317	29,032
New Jersey	81,188	40,972	46,762	18,867	4,332	6,362	31,418	229,901
New Mexico	19,328	2,867	11,151	667	2,113	1,654	1,837	39,616
New York	133,365	5,019	77,891	82,004	7,980	5,396	11,262	322,926
North Carolina	79,036	8,554	33,764	4,560	4,490	8,137	6,641	145,190
North Dakota	8,599	1,347	6,789	376	956	2,308	1,331	21,704
Ohio	117,047	9,549	38,626	2,998	6,356	14,104	23,397	212,077
Oklahoma	38,857	7,396	14,990	710	3,564	6,103	8,393	80,018
Oregon	32,134	3,287	16,501	4,756	2,423	1,583	2,547	63,232
Pennsylvania	110,875	11,804	60,454	16,892	5,473	6,209	23,129	236,925
Rhode Island	9,289	682	5,988	2,682	1,741	568	190	21,139
South Carolina	37,450	3,356	13,291	2,420	3,297	3,637	5,747	69,197
South Dakota	9,107	964	6,244	90	878	2,405	155	19,923
Tennessee	59,380	4,414	24,482	480	4,048	4,464	10,723	107,991
Texas	208,955	95,806	90,647	32,465	14,434	263,585	168,319	874,210
Utah	18,172	5,009	7,349	1,292	1,069	1,409	3,037	37,417
Vermont	6,808	160	4,880	174	386	1,190	72	13,667
Virginia	71,192	15,774	33,999	8,416	3,604	4,406	5,121	142,513
Washington	50,765	20,861	22,399	11,023	1,921	2,855	16,611	127,235
West Virginia	19,770	206	9,336	463	879	1,057	17,469	49,261
Wisconsin	49,587	1,437	24,244	1,178	3,416	8,914	3,693	92,469
Wyoming	7,436	246	9,418	1,151	1,046	2,030	3,352	24,679
TOTAL U.S.	2,685,100	539,900	1,177,700	504,300	171,200	606,100	641,300	6,325,700

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1989
(In Thousands of Barrels)

1989

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	49,464	2,179	25,865	13,550	4,484	6,197	7,368	109,107
Alaska	5,077	19,077	11,058	329	274	277	4,797	40,890
Arizona	40,629	8,367	11,501	154	2,386	1,632	731	65,399
Arkansas	29,395	2,041	14,997	3,298	778	4,856	2,408	57,773
California	310,769	91,594	82,135	60,455	14,996	24,137	58,627	642,713
Colorado	35,403	5,518	10,313	150	2,928	3,640	2,070	60,023
Connecticut	32,258	2,282	25,955	20,371	1,797	1,830	1,861	86,154
Delaware	8,151	1,273	4,355	4,870	522	1,016	4,175	24,363
Dist. of Columbia	4,198	0	1,870	1,381	27	5	61	7,541
Florida	142,152	34,542	35,765	48,759	6,481	8,375	4,667	280,741
Georgia	83,531	17,661	28,278	1,401	4,958	7,788	5,267	148,885
Hawaii	8,750	13,526	5,686	19,693	296	185	2,098	50,232
Idaho	11,297	1,294	6,867	332	891	809	181	21,809
Illinois	115,467	4,689	34,962	4,723	8,052	15,964	31,397	215,295
Indiana	61,672	17,845	33,826	4,103	6,396	11,273	15,920	151,035
Iowa	32,556	861	15,038	234	1,710	10,245	1,864	62,509
Kansas	29,838	3,989	15,845	456	3,109	19,479	8,848	81,564
Kentucky	43,408	5,124	29,158	603	2,784	7,730	10,298	99,083
Louisiana	46,863	22,436	38,764	42,030	2,315	39,098	80,649	272,154
Maine	14,187	2,317	12,731	8,123	1,000	1,619	195	40,173
Maryland	49,100	4,467	21,072	13,426	4,500	2,232	3,797	98,596
Massachusetts	58,262	10,123	40,569	33,820	1,426	2,649	3,191	150,040
Michigan	101,096	9,503	25,432	5,032	3,863	22,217	12,864	180,008
Minnesota	46,553	4,821	19,544	1,361	4,923	8,402	8,838	94,442
Mississippi	29,009	6,720	17,773	16,743	1,975	5,866	7,021	85,127
Missouri	63,694	7,477	22,254	701	4,545	11,261	9,801	119,614
Montana	10,305	645	7,691	1,327	1,749	1,663	4,159	27,749
Nebraska	18,418	1,581	12,456	462	1,130	5,130	648	39,825
Nevada	14,583	6,223	7,493	680	1,369	1,756	186	32,279
New Hampshire	12,279	792	7,822	5,576	742	2,609	315	30,134
New Jersey	81,368	44,268	45,788	17,161	4,032	5,325	32,028	229,968
New Mexico	18,869	2,945	9,697	2,004	1,666	7,272	1,899	44,369
New York	133,419	6,136	78,951	73,964	4,967	5,856	11,093	314,386
North Carolina	77,740	7,920	28,706	2,655	3,766	9,854	6,509	137,150
North Dakota	8,394	1,367	7,022	378	924	2,505	1,349	21,939
Ohio	116,158	10,655	39,684	2,807	10,622	16,414	23,422	219,763
Oklahoma	38,870	9,404	14,891	499	2,750	6,770	8,718	81,902
Oregon	31,874	3,479	16,335	4,742	2,802	1,805	2,490	63,329
Pennsylvania	108,862	9,836	62,861	17,179	6,718	7,112	23,297	235,867
Rhode Island	8,869	770	5,933	1,172	1,605	515	190	19,054
South Carolina	42,627	3,237	13,196	1,482	2,313	3,861	5,627	72,342
South Dakota	9,121	1,112	5,454	84	776	5,187	159	21,894
Tennessee	60,028	4,536	34,202	569	5,703	4,746	10,551	110,359
Texas	203,422	94,085	95,119	33,654	9,682	277,172	167,829	880,963
Utah	17,303	5,201	8,184	1,842	1,871	1,464	3,177	38,842
Vermont	6,551	237	4,805	89	453	1,569	73	13,797
Virginia	70,896	15,843	30,394	9,539	4,203	4,719	5,120	140,714
Washington	53,798	20,780	22,206	14,085	2,612	3,828	18,267	135,364
West Virginia	19,475	418	10,333	482	812	1,331	17,746	50,577
Wisconsin	49,108	1,472	24,349	1,312	3,805	9,755	3,687	93,486
Wyoming	7,557	199	9,795	223	934	2,448	3,402	24,535
TOTAL U.S.	2,674,700	553,000	1,183,000	500,100	165,200	608,900	638,900	6,323,700

SOURCE: U.S. Energy Information Administration, State Energy Data Report, 1960-1989.

Historical United States Oil Consumption by Major Product: 1918-1946
(Thousands of Barrels)

Year	Total Consumption	Motor Fuels(a)	Distillate	Residual	Kerosine	Other
1918	271,706	79,949	142,751 (b)	(b)	34,442	14,564
1919	374,586	88,648	163,803 (b)	(b)	33,188	88,947
1920	455,806	108,945	185,972 (b)	(b)	33,082	127,807
1921	457,560	116,840	195,656 (b)	(b)	29,537	115,527
1922	530,975	137,770	237,063 (b)	(b)	34,851	121,291
1923	652,114	174,462	261,388 (b)	(b)	35,536	180,728
1924	687,540	196,586	290,766 (b)	(b)	36,712	163,476
1925	727,178	232,745	307,033 (b)	(b)	39,969	147,431
1926	780,755	268,128	339,572 (b)	(b)	38,140	134,915
1927	803,177	305,367	339,265 (b)	(b)	37,491	121,054
1928	860,241	338,881	383,974 (b)	(b)	36,235	101,151
1929	940,581	382,878	415,156 (b)	(b)	36,032	106,515
1930	926,642	397,609	368,531 (b)	(b)	34,736	125,766
1931	902,593	403,843	334,668 (b)	(b)	31,358	132,724
1932	835,230	377,791	65,101	243,056	33,221	116,061
1933	868,200	380,494	64,748	258,957	38,493	125,508
1934	919,838	410,339	74,824	265,547	44,234	124,894
1935	983,317	434,810	86,028	280,695	47,645	134,139
1936	1,092,379	481,606	102,757	307,884	51,428	148,704
1937	1,169,205	519,352	116,841	325,514	54,972	152,526
1938	1,136,705	523,003	117,449	291,833	56,360	148,060
1939	1,230,486	555,509	134,973	323,488	60,503	156,013
1940	1,326,620	589,490	160,851	340,163	68,776	167,340
1941	1,485,779	667,505	172,824	383,422	69,469	192,559
1942	1,449,908	589,110	185,661	405,697	69,767	199,673
1943	1,521,426	568,238	208,110	467,008	68,598	209,472
1944	1,671,263	632,482	209,320	512,020	71,812	245,629
1945	1,772,685	696,333	226,084	523,423	75,573	251,272
1946	1,792,786	735,417	242,894	480,029	89,088	245,358

(a) Motor gasoline
(b) Distillate and residual fuel oils not reported separately until 1932.

SOURCE: U.S. Department of Interior, Bureau of Mines, Mineral Yearbooks.

BASIC PETROLEUM DATA BOOK

SECTION VIII. REFINING

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Section VIII
Table 1

Estimated Worldwide Crude Oil Refining Capacity by Area as of January 1
(Barrels per day)

Year	United States(a)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Sub Total	Communist Nations	USSR/ E. Europe(c)	Total World
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000 (b)	NA	9,119,034
1948	6,034,252	1,479,350	7,513,602	859,100	47,750	202,850	682,990	9,306,292	650,000 (b)	NA	9,956,292
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000 (b)	NA	11,109,245
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	NA	11,361,500
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000 (b)	NA	12,023,744
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100 (b)	NA	12,979,085
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	NA	14,247,520
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	NA	15,391,577
1955	8,386,044	2,566,500	10,952,544	1,184,300	68,400	613,700	2,365,900	15,184,844	1,784,000	NA	16,968,844
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	NA	17,290,336
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	NA	18,676,397
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	NA	NA	NA
1959	8,761,446	3,680,500	12,441,946	1,432,800	100,100	1,229,600	3,633,200	18,837,646	NA	NA	NA
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	NA	23,830,324
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	NA	NA	NA
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	NA	NA	NA
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	NA	NA	NA
1964	10,305,774	5,828,400	16,134,174	1,801,300	365,200	2,537,000	6,263,500	27,101,174	NA	NA	NA
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	NA	33,088,751
1966	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	NA	34,296,439
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	NA	NA	NA
1968	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	NA	41,343,204
1969	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	NA	45,194,209
1970	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	NA	48,355,873
1971	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	NA	53,183,528
1972	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	NA	56,845,268
1973	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	NA	59,282,384
1974	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	NA	64,118,536
1975	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	NA	67,551,454
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	NA	71,809,515
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	NA	75,180,964
1978	17,047,724	10,592,020	27,639,744	3,506,484	1,467,157	10,176,819	20,728,204	63,518,408	13,938,000	NA	77,456,408
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	nA	78,289,132
1980	17,988,121	10,683,671	28,671,792	3,518,080	1,666,108	10,386,375	20,243,747	64,486,102	15,346,000	NA	79,832,102
1981	18,620,520	10,716,881	29,337,401	3,729,646	1,697,658	10,554,691	20,205,799	65,525,195	16,036,500	NA	81,561,695
1982	17,889,734	10,720,055	28,609,789	3,312,152	1,761,870	10,966,825	19,444,519	64,095,155	16,533,000	NA	80,628,155
1983	16,859,337	9,873,816	26,733,153	3,685,333	1,882,105	10,902,204	17,124,989	60,327,784	16,873,000	NA	77,200,784
1984	16,137,141	9,590,962	25,728,103	3,901,082	1,879,990	10,473,079	16,231,932	58,214,186	17,200,000	NA	75,414,186
1985	15,658,769	9,457,706	25,116,475	4,052,673	2,447,156	10,393,562	15,654,622	57,664,488	17,500,000	NA	75,164,488
1986	15,458,948	8,613,690	24,072,638	4,274,255	2,520,403	10,111,652	14,071,507	55,050,455	17,500,000	NA	72,550,455
1987	15,565,513	8,676,740	24,242,253	3,862,622	2,523,563	10,400,180	13,929,325	54,957,943	17,610,000	NA	72,567,943
1988	15,915,418	8,856,748	24,772,166	4,146,222	2,630,250	10,274,302	14,127,595	55,950,535	17,610,000	NA	73,560,535
1989	15,556,700	8,839,238	24,395,938	4,334,676	2,786,987	10,064,786	13,858,624	55,441,011	17,798,135	NA	73,239,146

See notes and sources at end of table

Estimated Worldwide Crude Oil Refining Capacity by Area as of January 1
(Barrels per day)

Year	United States(a)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Sub Total	Communist Nations	USSR/ E. Europe(c)	Total World
1990	15,571,966	9,005,738	24,577,704	3,968,676	2,822,723	9,981,667	14,234,454	55,585,224	17,798,135	NA	73,383,359
1991	15,558,923	9,435,935	24,994,858	5,020,826	2,871,583	12,602,985	14,223,872	59,714,124	NA	14,926,589	74,640,713
1992	15,326,556	9,459,725	24,786,281	4,992,894	2,866,103	13,195,035	14,220,408	60,060,721	NA	14,913,635	74,974,356

(a) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
(b) Estimates for U.S.S.R. only
(c) Due to the political changes in the U.S.S.R. and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries are grouped by geographic region, rather than political ideology.

SOURCE: 1947-1975: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"
1976-1991: United States. U.S. Energy Information Administration, Petroleum Refineries in the United States and
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue
1992: Oil and Gas Journal, "Worldwide Report" issue.

Section VIII
Table 2

Worldwide Crude Oil Refinery Runs and Refinery Utilization Rates(a)
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416	14,602	14,739	14,648	13,483
Utilization Rate (%)	86.8	90.9	92.1	90.8	90.8	90.4	87.1	88	90.9	84.5	83.2	88	89	86.5	84	75
Other Western Hemisphere	4,880	5,070	5,240	5,485	5,780	6,185	6,690	6,980	7,645	7,655	7,215	7,380	7,520	7,795	8,180	8,545
Utilization Rate (%)	97.2	94.9	94.5	93.2	91.9	95	93.8	92.1	93.5	84.5	75.7	76	75.1	73.6	79.6	80
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625	12,775	12,855	13,665	12,330
Utilization Rate (%)	95.5	94.6	92.7	90.6	86.9	91.3	86.6	81.9	89.5	78.3	66.3	68.2	61.2	62	67.2	60.9
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300	2,240	2,535	2,365	2,445
Utilization Rate (%)	84.7	82.7	83.9	86	81.6	86.3	70.6	75.9	78.7	80.8	63.2	70	66.9	72.3	66.7	69.5
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020	1,165	1,280	1,355	1,460
Utilization Rate (%)	92.4	88.1	80.9	72.2	70.7	90.4	80	90.4	109.7	83.3	90	76.8	80.7	87.3	81.2	87.6
Austral-Asia	2,530	2,975	3,475	4,350	4,930	5,580	6,230	6,350	7,345	7,035	6,755	7,375	7,600	7,905	8,165	7,730
Utilization Rate (%)	79.6	84.6	87.8	100.6	100.2	100.3	102.8	93.1	92.8	78.8	71.9	74.7	76.5	77.7	79.4	74.4
Subtotal	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116	45,902	47,109	48,378	45,993
Utilization Rate (%)	90.1	91.3	91.4	91.7	89.9	92.5	88.8	86.6	90.8	81.3	73.5	75.9	73.9	74.4	76.1	71.3
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575	11,930	12,875	13,230	13,320
Utilization Rate(%)	NA	NA	NA	NA	NA	103.4	99.8	101.6	102.8	105.2	104.3	93.3	91.3	92.4	89.7	86.8
USSR/ E. Europe(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Utilization Rate (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116	45,902	47,109	48,378	45,993
Utilization Rate (%)	NA	NA	NA	NA	NA	94.1	90.4	88.8	92.7	84.9	78.3	78.9	76.9	77.6	78.7	74.3

See notes and sources at end of table

Worldwide Crude Oil Refinery Runs and Refinery Utilization Rates(a)
(Thousands of barrels per day)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
United States	12,477	11,774	11,685	12,044	12,165	12,716	12,854	13,283	13,401	13,409
Utilization Rate (%)	67	65.8	69.3	76.9	77.6	82.3	83.1	83.4	85.3	85.8
Other Western Hemisphere	8,520	7,730	7,370	7,285	6,945	6,955	7,125	7,125	7,375	7,465
Utilization Rate (%)	79.5	72.1	74.7	76	74.4	73.8	74	75.3	75.6	75.9
Western Europe	10,970	10,075	9,710	9,790	9,490	10,060	9,960	10,310	10,340	11,090
Utilization Rate (%)	54.3	51.8	56.7	60.3	60.6	70.2	70.2	73.6	75.4	78.2
Middle East	2,205	2,245	2,515	2,665	2,795	2,950	2,970	3,140	3,355	3,290
Utilization Rate (%)	59.1	67.8	68.2	75.8	75.3	69	71.3	71.9	83.8	65.1
Africa	1,525	1,735	1,920	1,975	2,015	2,095	2,170	2,200	2,175	2,335
Utilization Rate (%)	89.8	98.5	102	77.8	79.2	83.1	82.5	78.3	76.7	80.9
Austral-Asia	7,560	7,160	7,120	7,310	7,370	7,465	7,490	7,745	8,175	10,875
Utilization Rate (%)	71.6	65.3	65.3	69.8	70.9	71	72.2	76.1	80.3	83.8
Subtotal	43,257	40,719	40,320	41,069	40,780	42,241	42,569	43,803	44,821	NA
Utilization Rate (%)	66	63.5	66.8	70.7	72.2	75.3	75	77.5	80	NA
Communist Nations	13,420	13,575	13,675	13,885	14,165	14,500	14,405	14,520	14,520	NA
Utilization Rate(%)	83.7	82.1	81	80.7	80.9	81.9	81.9	81.6	79.8	NA
USSR/ E. Europe(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,120
Utilization Rate (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	72.8
Total World	43,257	40,719	40,320	41,069	40,780	42,241	42,569	43,803	44,821	59,770
Utilization Rate (%)	68.5	67.3	69.9	73	74.5	76.9	76.9	78.3	79.8	78.9

(a) Utilization rates, obtained by dividing crude runs by crude refining capacity, were calculated by API.
(b) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region, rather than polical ideology.

SOURCE: U.S.: 1965-1975: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
U.S.: 1976-1990–Energy Information Administration, Annual Petroleum Statements and Petroluem Supply Annuals.
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

Section VIII
Table 3

World Refinery Output by Area for Major Petroleum Products (Thousands of Barrels Per Day)

	1980					1981				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)
United States	6,526	2,661	1,580	3,855	14,622	6,437	2,613	1,321	3,638	14,009
Canada	665	499	309	557	2,030	638	448	271	526	1,883
Mexico	329	245	309	371	1,254	360	270	365	297	1,292
Central and South America (a)	920	1,134	2,011	1,151	5,216	943	1,060	1,773	1,086	4,862
Western Europe	2,477	4,112	3,592	3,060	13,241	2,368	3,649	3,217	2,973	12,207
Middle East	325	545	890	1,076	2,836	304	544	837	996	2,681
Africa	286	394	433	378	1,491	297	397	434	371	1,499
Asia	1,473	1,864	3,691	3,092	10,120	1,410	2,017	2,917	3,355	9,699
Eastern Europe and U.S.S.R.	2,080	2,962	3,478	3,665	12,185	2,087	2,981	3,490	3,493	12,051
Total World	15,081	14,416	16,293	17,205	62,995	14,844	13,979	14,625	16,735	60,183

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1982					1983				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)
United States	6,358	2,606	1,070	3,357	13,391	6,360	2,456	852	3,470	13,138
Canada	619	396	208	416	1,639	597	388	175	406	1,566
Mexico	346	235	350	371	1,302	353	224	350	402	1,329
Central and South America (a)	940	988	1,720	1,063	4,711	963	1,034	1,511	1,153	4,661
Western Europe	2,456	3,530	2,896	2,307	11,187	2,529	3,434	2,630	2,398	10,991
Middle East	324	648	925	892	2,789	319	681	925	958	2,883
Africa	317	454	507	434	1,712	324	505	547	461	1,837
Asia	1,439	2,200	2,781	2,723	9,143	1,544	2,242	2,712	2,711	9,209
Eastern Europe and U.S.S.R.	2,158	3,023	3,437	3,602	12,220	2,271	3,090	3,476	3,441	12,278
Total World	14,957	14,080	13,894	15,165	58,094	15,260	14,054	13,178	15,400	57,892

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1984					1985				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)
United States	6,478	2,680	891	3,630	13,679	6,441	2,687	882	3,740	13,750
Canada	586	410	161	548	1,705	589	401	127	691	1,807
Mexico	363	266	375	479	1,483	360	292	398	523	1,572
Central and South America (a)	1,027	1,075	1,417	1,205	4,723	908	1,049	1,245	1,175	4,379
Western Europe	2,624	3,609	2,537	3,170	11,939	2,684	3,574	2,306	3,128	11,692
Middle East	401	805	970	1,122	3,296	427	952	1,034	1,065	3,479
Africa	322	495	536	527	1,879	351	515	537	494	1,896
Asia	1,612	2,325	2,623	2,979	9,540	1,659	2,417	2,343	2,966	9,385
Eastern Europe and U.S.S.R.	2,153	3,043	3,452	3,426	12,075	2,172	2,984	3,426	3,184	11,766
Total World	15,566	14,708	12,962	17,086	60,319	15,591	14,871	12,298	16,966	59,726

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1986					1987				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(d)	Total (d)
United States	6,752	2,796	889	4,085	14,522	6,841	2,729	885	4,171	14,626
Canada	551	394	115	475	1,535	571	411	122	547	1,651
Mexico	369	243	468	446	1,526	368	233	456	462	1,519
Central and South America (a)	892	1,062	1,178	1,217	4,349	896	1,093	1,109	1,166	4,264
Western Europe	2,772	3,902	2,450	2,905	12,029	2,860	3,740	2,410	2,996	12,006
Middle East	493	1,022	1,301	1,193	4,009	527	1,110	1,317	1,015	3,969
Africa	317	504	600	496	1,917	333	543	618	537	2,031
Asia	1,694	2,570	2,292	3,030	9,586	1,735	2,651	2,317	3,006	9,709
Eastern Europe and U.S.S.R.	2,247	2,840	4,219	3,089	12,395	2,279	2,838	4,017	3,154	12,288
Total World	16,087	15,333	13,512	16,936	61,868	16,410	15,348	13,251	17,054	62,063

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1988					1989				
	Gasoline(b)	Distillate	Residual	Other(d)	Total (d)	Gasoline(b)	Distillate	Residual	Other(d)	Total (d)
United States	6,956	2,857	926	4,283	15,022	6,963	2,899	954	4,359	15,175
Canada	599	440	139	486	1,664	606	453	145	528	1,732
Mexico	375	206	421	409	1,411	386	234	427	248	1,295
Central and South America (a)	916	1,147	1,142	1,167	4,372	917	1,148	1,180	1,178	4,423
Western Europe	2,968	3,903	2,365	3,243	12,479	3,001	3,853	2,388	3,382	12,624
Middle East	579	1,190	1,417	995	4,181	611	1,288	1,508	1,082	4,489
Africa	341	582	624	555	2,102	360	581	639	578	2,158
Asia	1,815	2,766	2,491	3,013	10,085	1,926	2,916	2,608	3,131	10,581
Eastern Europe and U.S.S.R.	2,340	2,889	3,776	2,383	11,388	1,977	3,098	3,834	2,548	11,457
Total World	16,889	15,980	13,301	16,534	62,704	16,747	16,471	13,683	17,033	63,934

(a) Includes Cuba.

(b) For 1980 through 1985, includes motor gasoline and aviation gasoline. Beginning in 1986, aviation gasoline is included with "other"

(c) Includes other finished products and unfinished oils requiring further processing. These include asphalt, coke, aviation gasoline, naphthas, paraffin wax, petrochemical feedstocks, unfinished oils, white spirits, etc.

(d) Refinery Fuel and loss are included in the output of the individual petroleum products.

SOURCE: U.S. Energy Information Administration, International Energy Annuals.

United States Crude Oil Refining Capacity as of January 1(a)

	Number of Refineries			Crude Oil Throughput Capacity		
Year	Operating	Shutdown(d)	Total	Operating	Operable Shutdown	Inoperable Shutdown(b)
1947	361	38	399	5,336,399	233,083 (c)	
1948	352	38	390	5,825,566	208,686 (c)	
1949	336	39	375	6,230,505	208,490 (c)	
1950	320	47	367	6,222,998	473,302 (c)	
1951	325	32	357	6,701,815	261,829 (c)	
1952	327	23	350	7,161,366	171,519 (c)	
1953	315	28	343	7,481,701	138,019	18,941
1954	308	29	337	7,782,103	201,874	22,920
1955	296	30	326	8,069,154	316,890	34,586
1956	294	24	318	8,380,801	201,835	49,754
1957	298	21	319	8,808,841	262,856	51,977
1958	289	29	318	8,939,907	418,400	49,400
1959	291	22	313	9,450,741	310,705	58,400
1960	290	20	310	9,543,329	299,295	58,800
1961	289	22	311	9,629,685	368,888	11,500
1962	287	24	311	9,812,248	220,799	72,100
1963	287	21	308	9,814,791	196,130	107,400
1964	282	22	304	10,063,164	242,610	79,600
1965	273	27	300	10,161,311	258,540	354,744
1966	267	19	286	10,171,159	222,680	98,900
1967	260	21	281	10,412,447	245,960	101,200
1968	270	21	291	11,172,694	180,710	179,450
1969	264	20	284	11,575,829	126,480	37,200
1970	262	19	281	11,882,393	138,880	53,050
1971	253	26	279	12,658,248	201,980	159,750
1972	250	32	282	13,034,818	257,650	145,000
1973	253	28	281	13,482,909	188,475	132,200
1974	257	27	284	14,220,316	141,220	127,900
1975	262	28	290	14,696,750	263,960	208,100
1976	265	22	287	14,867,529	369,092	190,900
1977	273	18	291	15,861,735	536,637	211,500
1978	290	12	302	16,793,724	254,000	182,223
1979	301	10	311	17,147,875	293,010	103,500
1980	311	8	319	17,612,652	376,469	N.A.
1981	315	9	324	18,051,260	569,260	N.A.
1982	254	47	301	16,103,579	1,786,155	N.A.
1983	233	25	258	14,960,647	1.898,690	N.A.
1984	214	33	247	14,837,635	1,299,456	N.A.
1985	199	24	223	14,360,583	1,298,186	N.A.
1986	192	24	216	14,638,507	820,441	N.A.
1987	195	24	219	14,940,463	625,050	N.A.
1988	195	18	213	15,017,968	897,450	N.A.
1989	193	11	204	15,011,824	643,050	N.A.
1990	194	11	205	15,062,616	509,350	N.A.

See notes and sources at end of table

Section VIII
Table 4a

United States Crude Oil Refining Capacity as of January 1(a)

Year	Number of Refineries			Crude Oil Throughput Capacity		
	Operating	Shutdown(d)	Total	Operating	Operable Shutdown	Inoperable Shutdown(b)
1991	184	18	202	14,958,777	716,850	N.A.

(a) Does not include Puerto Rico refineries.
(b) Facilities inoperable, needing extensive reconditioning
(c) Not identified separately prior to 1953
(d) Figures beginning with 1980 are for operable shutdown only.

SOURCE: 1947-1975: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual
1976-1981: U.S. Energy Information Administration, "Petroleum Refineries in the Unite States and U.S. Territories" Annual
1982-1990: U.S. Energy Information Administration, PEtroleum Supply Annuals

Percentage Yields of Refined Petroleum Products from Crude Oil(a) in the United States-Annually 1964-1990

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4	44.1	43.0	44.5
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6	6.6	6.9	7.4
Ethane (including Ethylene)	(b)	(b)	(b)	(b)	(b)	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	(b)
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3	2.3	2.3	2.4
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2	1.0	1.3	1.0
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4	21.4	21.5	19.7
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0	11.3	11.5	11.7
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6	4.1	4.7	5.1
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6	0.7	0.6	0.7
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2	1.3	1.3	1.3
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5	2.5	2.6	2.7
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9	3.2	3.1	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	-	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6	3.7	3.8	4.0
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0	0.9	0.8	0.8
Shortage(c)	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6	-3.4	-3.6	-4.4
TOTAL(d)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See notes and sources at end of table

Section VIII
Table 5a

Percentage Yields of Refined Petroleum Products from Crude Oil(a) in the United States-Annually 1964-1990

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Gasoline	44.8	46.4	47.6	46.7	45.8	45.9	46.6	46.2	45.9	45.8
Jet Fuel	7.6	8.1	8.5	9.1	9.6	9.8	10.0	10.0	10.1	10.7
Ethane (including Ethylene)	0.1	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Liquefied Gases	2.4	2.2	2.7	2.9	3.1	3.2	3.4	3.6	4.0	3.6
Kerosine	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.3
Distillate Fuel Oil	20.5	21.5	20.5	21.5	21.6	21.2	20.5	20.8	20.8	20.9
Residual Fuel Oil	10.4	8.8	7.1	7.1	7.1	6.7	6.6	6.7	6.9	6.8
Petrochemical Feedstocks	4.7	3.6	3.3	2.8	2.8	3.1	2.9	2.4	2.5	2.9
Special Naphthas	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Lubricants	1.3	1.2	1.2	1.3	1.2	1.2	1.3	1.2	1.2	1.2
Wax	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Coke	3.1	3.4	3.5	3.5	3.7	3.8	3.8	4.0	3.9	3.9
Asphalt	2.7	2.7	3.1	3.1	3.2	3.1	3.3	3.2	3.1	3.2
Road Oil	-	-	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
Still Gas	4.3	4.4	4.6	4.5	4.7	4.9	4.8	4.9	4.9	4.8
Miscellaneous	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Shortage(c)	-4.0	-4.4	-4.1	-4.4	-4.5	-4.7	-4.8	-4.8	-4.8	-4.9
TOTAL(d)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Other unfinished oils added to crude oil in computing yield.
(b) Included with liquefied gases
(c) Processing Gain (-) or Loss (+).
(d) Totals may not add due to independent rounding.
(e) Included in asphalt.

SOURCE: 1964-1980--U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990--U.S. Energy Information Administration, Petroleum Supply Annuals.

United States Crude Oil Refinery Runs by P.A.D. Distric-Domestic vs Foreign
(Thousands of barrels per day)

Year	District I		District II		District III		District IV		District V		Total	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1947	648	265	1,312	-	1,889	2	133	-	826	-	4,808	267
1948	640	326	1,418	-	2,154	13	151	-	895	-	5,258	339
1949	486	374	1,404	-	1,973	46	165	-	876	3	4,904	423
1950	545	459	1,594	-	2,053	23	185	-	880	-	5,257	482
1951	641	477	1,796	1	2,398	10	215	-	947	10	5,997	498
1952	618	517	1,845	3	2,463	12	223	-	958	31	6,107	563
1953	601	552	1,949	7	2,601	8	235	-	975	71	6,361	638
1954	549	585	1,953	7	2,594	12	238	-	970	51	6,304	655
1955	530	633	2,119	18	2,832	30	255	-	968	95	6,704	776
1956	559	669	2,224	54	3,010	32	268	(a)	943	178	7,004	933
1957	640	656	2,219	60	2,898	24	273	(a)	900	249	6,930	989
1958	555	644	2,224	71	2,760	43	266	(a)	892	188	6,697	946
1959	574	641	2,340	59	2,922	27	290	(a)	902	238	7,028	965
1960	550	667	2,349	66	2,978	6	285	(a)	891	275	7,053	1,014
1961	573	650	2,347	86	3,020	6	284	(a)	910	308	7,134	1,050
1962	546	668	2,365	97	3,174	4	303	(a)	898	354	7,287	1,123
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195
1965	489	711	2,533	112	3,506	(a)	317	13	957	405	7,802	1,241
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120
1968	596	707	2,744	214 (b)	4,116	2	339	27	1,243	324	9,038	1,274
1969	560	749	2,773	240 (b)	4,263	(a)	351	35	1,267	391	9,214	1,415
1970	706	584	2,844	310 (b)	4,357	-	345	47	1,297	380	9,549	1,321
1971	649	682	2,853	377 (b)	4,438	54	360	45	1,239	503	9,539	1,661
1972	347	971	2,850	461 (b)	4,741	75	360	37	1,193	661	9,491	2,205
1973	237	1,264	2,774	711 (b)	4,656	398	372	44	1,167	808	9,206	3,225
1974	236	1,173	2,654	679 (b)	4,317	786	376	44	1,098	770	8,681	3,452
1975	166	1,242	2,637	775 (b)	4,078	1,182	380	45	1,086	851	8,347	4,095
1976	170	1,416	2,611	989 (b)	3,957	1,760	391	50	1,038	1,034	8,167	5,249
1977	136	1,538	2,386	1,393	3,886	2,460	426	54	1,199	1,124	8,033	6,569
1978	205	1,513	2,392	1,416	3,802	2,636	433	54	1,660	627	8,492	6,246
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379
1980	221	1,233	2,098	1,198	3,645	2,298	394	47	1,903	445	8,261	5,221
1981 (c)	205	1,126	2,181	785	3,630	1,951	390	33	1,900	300	8,306	4,195
1982	211	982	2,161	621	3,876	1,522	374	41	1,888	191	8,510	3,357
1983	211	827	2,174	570	3,909	1,509	380	44	1,883	227	8,556	3,177
1984	174	936	2,221	536	3,955	1,622	401	32	2,061	214	8,812	3,341
1985	152	767	2,114	590	4,102	1,365	393	41	2,124	194	8,884	2,958
1986	144	1,030	2,073	753	3,848	2,143	370	63	2,273	229	8,707	4,217
1987	117	1,136	2,034	812	3,536	2,480	371	66	2,319	199	8,376	4,693
1988	116	1,184	1,998	918	3,307	2,906	384	67	2,428	209	8,233	5,284
1989	74	1,207	1,869	1,039	2,946	3,430	387	71	2,402	262	7,679	6,010

See notes and sources at end of table

United States Crude Oil Refinery Runs by P.A.D. Distric-Domestic vs Foreign
(Thousands of barrels per day)

Year	District I		District II		District III		District IV		District V		Total	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1990	62	1,227	1,898	1,113	2,773	3,530	388	72	2,415	231	7,536	6,172

(a) Less than 1000 barrels daily
(b) Includes some Athabasca hydrocarbons.
(c) Beginning with 1981, figures are for refinery receipts of crude oil.

SOURCE: 1947-1975 Bureau of Mines, Annual Petroleum Statements
1976-1980 U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual
1981-1982--U.S. Energy Information Administration, Petroleum Supply Annual
1983-1990--U.S. Energy Information Administration, Petroleum Supply Annual, Refinery Capacity

Section VIII
Table 7

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1988)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Florida	1	0	1	0	17,000	0	20,000	11,390	0	0	0	0	0	0
Georgia	2	1	1	5,655	28,000	6,000	29,000	0	0	0	0	0	0	3,153
New Jersey	6	6	0	434,400	0	456,400	0	244,100	21,500	251,000	37,000	77,500	0	284,500
New York	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	2	1	1	3,000	10,000	3,500	12,000	0	0	0	0	0	0	0
Pennsylvania	8	8	0	727,000	0	759,500	0	319,300	0	259,300	12,300	207,690	51,000	475,020
Virginia	2	2	0	53,400	0	55,550	0	29,000	13,500	27,000	2,000	9,500	0	25,000
West Virginia	2	2	0	16,808	0	17,500	0	9,675	0	0	0	3,750	4,440	0
PAD District 1 Total	25	22	3	1,422,113	55,000	1,493,450	61,000	735,465	81,000	602,300	56,300	354,440	74,440	897,673
Illinois	7	7	0	854,700	75,000	898,600	80,000	337,600	120,700	339,000	7,400	280,300	66,500	548,100
Indiana	5	4	1	422,900	1,000	437,100	2,000	204,200	27,500	166,000	6,000	94,500	0	232,800
Kansas	8	6	2	322,400	30,400	339,483	32,000	119,650	53,000	124,500	10,000	99,300	3,190	188,300
Kentucky	3	2	1	218,900	600	226,300	1,000	92,000	57,600	100,000	0	53,500	0	170,300
Michigan	3	3	0	113,500	0	120,000	0	38,500	0	45,000	1,000	36,500	0	55,300
Minnesota	2	2	0	222,143	0	237,220	0	137,000	54,000	78,000	1,000	61,500	0	209,700
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	17,000
Ohio	4	4	0	488,100	0	507,000	0	185,000	31,200	177,000	25,300	161,600	87,000	190,000
Oklahoma	6	6	0	381,500	0	398,700	0	129,000	27,000	131,000	6,400	90,000	5,000	170,000
Tennessee	1	1	0	60,000	0	65,000	0	10,000	0	30,000	0	10,000	0	33,500
Wisconsin	1	1	0	32,000	0	34,000	0	20,500	0	9,700	1,000	8,000	0	14,800
PAD District II Total	41	37	4	3,174,143	107,000	3,323,403	115,000	1,273,450	371,000	1,226,200	63,300	907,300	161,690	1,829,800
Alabama	6	6	0	180,600	0	187,300	0	50,000	12,000	0	0	32,000	0	63,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	9,000	0	18,500
Louisiana	23	20	3	2,262,207	359,000	2,358,900	414,875	1,157,700	563,500	923,800	35,800	520,500	149,000	1,164,400
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	72,000	9,000	95,800	68,000	253,800
New Mexico	4	4	0	75,600	0	84,607	0	13,900	0	27,100	6,100	19,200	0	29,200
Texas	36	32	4	3,902,900	236,100	4,170,400	247,000	1,843,700	377,900	1,602,500	135,200	1,134,200	276,000	3,082,450
PAD District III Total	78	71	7	6,841,107	602,100	7,245,107	669,875	3,362,550	1,023,900	2,643,900	186,875	1,810,700	493,000	4,611,650
Colorado	2	2	0	76,500	0	80,000	0	23,000	0	23,500	1,000	17,500	0	27,500
Montana	5	4	1	130,450	13,400	135,000	14,000	53,250	9,900	52,100	6,600	37,800	4,900	121,400
Utah	6	6	0	154,500	0	160,000	0	45,380	8,500	54,800	10,600	28,550	2,000	39,250
Wyoming	6	5	1	164,555	350	170,300	400	75,000	9,000	62,000	12,200	32,250	0	48,800
PAD District IV Total	19	17	2	526,005	13,750	545,300	14,400	196,630	27,400	192,400	30,400	116,100	6,900	236,950
Alaska	6	6	0	222,700	0	238,260	0	6,000	0	0	0	12,000	9,000	0
California	33	31	2	2,259,600	119,600	2,395,509	132,800	1,329,150	496,000	637,150	22,050	558,950	389,100	1,387,430
Hawaii	2	2	0	115,900	0	118,000	0	58,000	13,000	22,000	3,000	12,000	15,900	15,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	451,900	0	470,754	0	218,500	68,000	100,000	19,500	119,800	52,000	190,800
PAD District V Total	50	48	2	3,054,600	119,600	3,227,223	132,800	1,630,150	577,000	759,150	44,550	702,750	466,000	1,593,730
United States Total	213	195	18	15,017,968	897,450	15,834,483	993,075	7,198,245	2,080,300	5,423,950	381,425	3,891,290	1,202,030	9,169,803

See notes and sources at end of table

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1989)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-treating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Georgia	2	1	1	5,079	28,000	6,000	29,000	0	0	0	0	0	0	3,000
New Jersey	6	6	0	400,000	0	434,000	0	244,100	21,500	251,000	37,000	77,500	17,000	284,500
New York	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	2	1	1	3,000	10,000	3,500	12,000	0	0	0	0	0	0	0
Pennsylvania	8	8	0	734,315	0	770,500	0	319,300	0	238,300	6,800	208,400	51,000	479,620
Virginia	2	2	0	54,700	0	57,000	0	29,000	13,500	27,000	2,000	9,750	0	25,250
West Virginia	2	2	0	16,808	0	17,500	0	8,175	0	0	0	5,300	0	0
PAD District 1 Total	24	22	2	1,395,752	38,000	1,483,500	41,000	722,575	81,000	581,300	50,800	356,950	87,000	902,370
Illinois	6	6	0	889,200	0	942,000	0	349,400	124,900	343,000	12,000	292,300	67,500	588,100
Indiana	5	4	1	428,900	1,500	441,600	2,500	233,200	28,500	167,000	6,000	99,500	0	233,700
Kansas	8	8	0	349,300	0	370,483	0	124,650	53,000	124,500	9,000	97,500	3,190	215,500
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	53,500	0	182,300
Michigan	3	3	0	113,500	0	121,000	0	38,000	0	45,000	1,000	33,000	0	60,300
Minnesota	2	2	0	247,100	0	264,220	0	167,000	54,000	78,000	1,000	55,500	0	221,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	16,600
Ohio	4	4	0	484,600	0	507,000	0	185,000	30,700	176,000	17,500	161,600	87,200	194,500
Oklahoma	6	6	0	381,500	0	399,200	0	142,000	27,000	132,500	6,400	91,100	4,500	158,000
Tennessee	1	1	0	58,000	0	60,000	0	12,000	0	30,000	0	10,000	0	35,000
Wisconsin	1	1	0	32,000	0	34,000	0	20,500	0	12,600	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,261,000	1,500	3,425,803	2,500	1,363,750	375,700	1,234,600	59,100	914,100	162,390	1,919,800
Alabama	5	4	1	144,100	9,500	149,300	10,000	50,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	9,000	0	18,500
Louisiana	22	20	2	2,286,147	341,000	2,396,900	394,500	1,144,700	545,500	846,800	12,300	524,200	149,000	1,246,275
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	72,000	9,000	96,000	68,000	254,000
New Mexico	4	4	0	75,600	0	84,607	0	13,900	0	27,100	6,100	19,200	0	29,200
Texas	34	32	2	3,896,950	182,050	4,133,500	192,800	1,777,700	373,800	1,583,500	128,300	1,143,500	296,000	3,103,150
PAD District III Total	74	69	5	6,822,597	539,550	7,208,207	605,300	3,283,550	1,001,800	2,547,900	156,475	1,817,900	513,000	4,710,425
Colorado	3	2	1	72,000	15,200	76,000	16,000	33,000	4,200	23,500	1,000	19,900	5,000	29,900
Montana	4	4	0	130,650	7,800	135,200	8,000	53,350	7,700	52,170	6,620	35,530	4,900	118,270
Utah	6	6	0	154,500	0	160,000	0	45,500	8,500	49,400	9,600	28,550	0	39,250
Wyoming	5	5	0	169,725	0	175,750	0	75,000	9,000	62,000	12,200	32,250	0	48,800
PAD District IV Total	18	17	1	526,875	23,000	546,950	24,000	206,850	29,400	187,070	29,420	116,230	9,900	236,220
Alaska	6	6	0	215,000	0	232,460	0	6,000	0	0	0	12,000	9,000	0
California	32	31	1	2,206,200	29,100	2,347,689	32,120	1,347,000	502,000	648,950	14,050	559,900	388,500	1,463,280
Hawaii	2	2	0	126,500	0	130,000	0	58,000	13,000	22,000	3,000	12,000	15,900	3,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	6	1	453,400	11,900	471,000	12,754	219,000	70,000	102,500	13,000	121,800	52,000	204,300
PAD District V Total	49	47	2	3,005,600	41,000	3,185,849	44,874	1,648,500	585,000	773,450	30,050	705,700	465,400	1,671,080
United States Total	204	193	11	15,011,824	643,050	15,850,309	717,674	7,225,225	2,072,900	5,324,320	325,845	3,910,880	1,237,690	9,439,895

See notes and sources at end of table

Section VIII
Table 7b

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1990)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Georgia	2	1	1	5,079	28,000	6,000	30,000	0	0	0	0	0	0	3,000
New Jersey	6	6	0	458,900	0	481,400	0	257,100	21,500	256,000	37,000	77,500	17,000	284,500
New York	1	1	0	41,850	0	45,000	0	28,000	0	0	0	0	0	0
North Carolina	1	1	0	3,000	0	3,000	0	0	0	0	0	0	0	0
Pennsylvania	8	8	0	739,315	0	770,500	0	319,300	0	238,000	6,800	208,400	51,000	474,620
Virginia	2	2	0	56,700	0	60,000	0	29,000	13,500	27,500	2,000	10,200	0	26,500
West Virginia	2	2	0	31,700	0	32,500	0	8,600	0	0	0	5,300	4,400	4,000
PAD District 1 Total	23	22	1	1,476,544	28,000	1,548,400	30,000	737,000	81,000	586,500	50,800	357,400	91,400	902,620
Illinois	6	6	0	882,600	0	937,000	0	349,400	126,100	343,000	10,000	288,300	67,500	582,600
Indiana	5	4	1	429,900	1,250	443,100	2,500	232,050	27,500	166,121	4,200	98,348	0	255,100
Kansas	8	8	0	351,700	0	373,483	0	124,650	52,500	123,800	9,000	93,800	3,190	211,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	53,500	0	182,300
Michigan	3	3	0	117,100	0	129,000	0	38,000	0	47,000	1,000	33,000	0	65,800
Minnesota	2	2	0	252,100	0	264,220	0	167,000	60,000	78,000	1,000	55,500	0	221,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	16,600
Ohio	4	4	0	484,600	0	507,000	0	185,000	30,700	176,000	17,500	161,600	87,200	194,500
Oklahoma	6	6	0	387,500	0	410,200	0	147,000	27,000	140,500	6,400	94,600	5,000	168,500
Tennessee	1	1	0	60,000	0	62,000	0	12,000	0	30,000	0	10,000	0	35,000
Wisconsin	1	1	0	33,000	0	35,000	0	20,500	0	12,600	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,275,400	1,250	3,447,303	2,500	1,367,600	381,400	1,243,021	55,300	908,748	162,890	1,947,200
Alabama	4	3	1	140,100	9,500	144,300	10,000	50,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	11,200	0	28,500
Louisiana	22	19	3	2,241,847	349,000	2,367,400	408,500	1,152,200	580,700	891,800	11,500	536,100	157,000	1,216,975
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	74,000	7,000	96,000	68,000	254,000
New Mexico	4	4	0	77,800	0	84,207	0	13,900	0	27,700	6,100	21,050	1,000	29,800
Texas	36	34	2	3,856,100	62,250	4,093,300	79,100	1,733,200	367,000	1,613,500	125,500	1,130,700	312,500	3,165,750
PAD District III Total	75	69	6	6,735,647	427,750	7,133,107	505,600	3,246,550	1,030,200	2,625,500	150,875	1,821,050	538,500	4,754,325
Colorado	3	2	1	76,000	15,200	85,000	16,000	43,000	4,200	25,500	1,000	22,400	5,000	34,200
Montana	4	4	0	139,650	0	145,500	0	53,300	7,700	55,170	6,225	37,680	4,900	119,240
Utah	6	6	0	154,500	0	160,000	0	46,980	8,500	54,800	10,600	30,500	2,400	41,200
Wyoming	5	5	0	169,725	0	175,750	0	76,000	9,000	62,000	12,200	32,250	0	52,300
PAD District IV Total	18	17	1	539,875	15,200	566,250	16,000	219,280	29,400	197,470	30,025	122,830	12,300	246,940
Alaska	6	6	0	229,850	0	241,700	0	6,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	9,600	0	10,000	0	3,000	0	0	0	0	0	0
California	32	30	2	2,169,000	37,150	2,304,200	39,600	1,315,600	501,200	652,900	14,000	535,700	398,500	1,460,040
Hawaii	2	2	0	131,500	0	135,000	0	71,250	13,000	20,000	3,000	12,000	15,000	15,800
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	490,700	0	522,254	0	260,500	72,000	115,500	10,000	126,500	54,000	210,000
PAD District V Total	50	48	2	3,035,150	37,150	3,217,854	39,600	1,674,850	586,200	788,400	27,000	686,200	476,500	1,685,840
United States Total	205	194	11	15,062,616	509,350	15,912,914	593,700	7,245,230	2,108,200	5,440,891	314,000	3,896,228	1,281,590	9,536,925

See notes and sources at end of table

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1991)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	152,000	0	95,000	45,000	67,000	5,000	54,000	18,000	123,000
Georgia	2	1	1	5,540	28,000	6,000	30,000	0	0	0	0	0	0	2,940
New Jersey	6	4	2	334,500	124,400	352,000	132,400	258,900	21,000	256,000	37,000	77,500	17,000	289,000
New York	1	1	0	41,850	0	45,000	0	28,000	0	0	0	0	0	0
North Carolina	1	1	0	3,000	0	3,000	0	0	0	0	0	0	0	0
Pennsylvania	8	8	0	744,315	0	772,500	0	320,250	0	247,000	6,800	200,400	51,000	471,820
Virginia	2	2	0	56,700	0	60,000	0	29,000	14,000	27,500	2,000	10,200	0	26,500
West Virginia	1	1	0	12,500	0	12,500	0	6,000	0	0	0	3,700	4,440	4,000
PAD District 1 Total	22	19	3	1,338,405	152,400	1,403,000	162,400	737,150	80,000	597,500	50,800	345,800	90,440	917,260
Illinois	7	7	0	937,600	0	994,000	0	383,900	126,300	378,000	10,000	302,300	67,500	617,600
Indiana	5	4	1	429,900	1,250	443,100	2,500	235,450	28,000	173,000	4,200	99,800	0	267,800
Kansas	8	8	0	351,700	0	374,483	0	124,650	52,500	123,800	9,000	93,800	3,190	211,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	46,000	0	172,300
Michigan	3	3	0	118,600	0	129,000	0	38,000	0	47,000	1,000	33,000	0	61,800
Minnesota	2	2	0	267,100	0	279,220	0	182,000	60,000	83,000	1,000	59,500	0	227,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	3,600	12,100	0	19,100
Ohio	4	4	0	457,100	0	477,000	0	172,000	31,700	174,000	17,500	162,600	87,200	196,500
Oklahoma	6	6	0	395,500	0	416,200	0	147,000	26,500	149,000	5,000	101,500	5,000	177,500
Tennessee	1	1	0	60,000	0	62,000	0	12,000	0	30,000	0	10,000	0	30,000
Wisconsin	1	1	0	33,200	0	35,000	0	20,500	0	11,000	1,000	8,000	0	14,800
PAD District II Total	40	39	1	3,327,600	1,250	3,496,303	2,500	1,407,500	382,600	1,294,800	52,300	928,600	162,890	1,995,400
Alabama	3	2	1	113,500	26,600	116,300	28,000	45,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	53,900	5,800	57,000	6,000	23,300	0	19,100	775	11,200	0	30,000
Louisiana	22	19	3	2,286,707	340,500	2,388,900	395,000	1,132,200	580,700	895,500	11,500	530,300	172,000	1,267,500
Mississippi	6	5	1	362,400	6,000	383,000	7,900	274,775	83,500	80,000	7,000	96,000	68,000	254,000
New Mexico	4	3	1	74,800	4,000	79,107	6,100	13,900	0	33,800	4,500	21,050	1,000	29,800
Texas	34	32	2	3,875,500	57,250	4,097,000	64,500	1,718,900	373,800	1,642,500	125,500	1,147,600	313,500	3,176,650
PAD District III Total	72	64	8	6,766,807	440,150	7,121,307	507,500	3,208,075	1,050,000	2,670,900	149,275	1,832,150	554,500	4,817,250
Colorado	3	2	1	76,000	15,200	85,000	16,000	43,000	4,200	27,500	1,000	22,900	5,000	35,700
Montana	4	4	0	139,650	0	145,500	0	53,450	7,700	55,900	6,250	37,730	4,900	119,340
Utah	6	6	0	154,500	0	160,000	0	46,980	8,500	54,800	10,600	30,500	2,400	41,200
Wyoming	5	5	0	169,725	0	175,750	0	73,000	9,000	62,000	12,500	32,350	0	52,500
PAD District IV Total	18	17	1	539,875	15,200	566,250	16,000	216,430	29,400	200,200	30,350	123,460	12,300	248,740
Alaska	6	6	0	239,540	0	254,700	0	6,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	10,000	0	12,000	0	7,000	0	0	0	0	0	0
California	32	29	3	2,094,150	91,450	2,217,400	98,700	1,347,600	530,900	656,700	14,000	542,300	408,800	1,475,180
Hawaii	2	2	0	146,300	0	150,000	0	74,250	13,000	20,000	0	13,000	18,000	3,500
Nevada	1	0	1	0	4,500	0	4,700	0	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	6	1	496,100	11,900	531,000	12,754	255,500	72,000	118,500	7,000	128,500	52,000	219,000
PAD District V Total	50	45	5	2,986,090	107,850	3,165,100	116,154	1,706,350	615,900	795,200	21,000	695,800	487,800	1,697,680
United States Total	202	184	18	14,958,777	716,850	15,751,960	804,554	7,275,505	2,157,900	5,558,600	303,725	3,925,830	1,307,930	9,676,330

See notes and sources at end of table

Number and Capacity of United States Petroleum Refineries

(a) Refineries where distillation units are completely idle but not permanently shutdown on January 1

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1987)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,759,700	602,600	76,100	370,300	345,100	150,800	23,200	704,950
Caribbean	8	1,392,300	580,300	125,000	79,000	183,340	15,000	244,500	496,950
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	–	121,500
Puerto Rico	2	121,000	59,300	--	12,000	5,800	15,000	10,000	15,700
Trinidad	2	300,000	171,000	18,000	25,000	31,000	--	104,500	41,800
Virgin Islands	1	600,000	190,000	40,000	–	125,000	--	130,000	290,000
Latin America	70	5,524,740	2,333,710	454,400	1,043,320	264,218	41,900	275,600	819,993
Brazil	13	1,321,100	685,200	41,100	321,900	21,600	--	–	132,700
Mexico	9	1,349,000	600,700	82,000	267,000	137,800	18,000	--	486,000
Venezuela	7	1,224,700	551,500	122,000	179,400	6,000	--	275,600	–
Europe	129	14,653,338	3,864,287	1,632,290	1,577,200	2,087,115	259,500	1,911,370	4,415,126
France	15	1,834,050	427,650	167,400	252,300	239,300	13,500	277,900	504,400
Germany (West)	19	1,719,800	537,300	269,400	186,200	317,000	96,200	326,700	690,950
Italy	21	2,678,700	708,700	345,130	276,000	296,600	55,000	298,600	591,400
Netherlands	7	1,400,800	253,370	148,710	125,500	150,400	30,000	183,200	511,820
Spain	10	1,305,000	291,800	124,000	92,500	187,100	15,000	156,100	284,000
United Kingdom	15	1,779,700	625,090	166,000	345,500	367,500	19,000	131,600	770,590
Middle East	37	3,862,622	960,446	236,999	107,660	399,568	386,810	602,552	557,351
Iran	4	530,000	215,200	80,800	–	63,845	93,180	3,120	34,225
Kuwait	4	618,000	217,000	--	30,000	51,000	159,000	337,000	36,000
Saudi Arabia	6	1,125,000	67,655	26,000	10,000	86,900	68,100	39,000	207,000
Asia-Pacific	106	10,400,180	2,618,577	471,043	868,908	1,093,230	226,630	1,812,430	3,153,680
India	12	991,070	331,007	104,730	129,408	26,690	6,500	13,800	71,820
Japan	46	4,790,050	1,532,940	80,520	502,750	561,420	50,950	1,497,500	1,943,910
Korea	6	862,000	35,500	30,000	–	63,200	7,000	21,000	95,000
Singapore	5	961,000	170,500	133,000	–	50,600	44,200	76,700	288,400
Africa	45	2,523,563	390,617	83,170	131,100	283,777	34,000	105,100	470,904
Algeria	4	464,700	15,000	--	–	55,600	--	–	23,600
Egypt	7	452,110	46,725	16,470	–	30,940	--	–	84,386
Libya	3	329,400	3,432	--	–	14,582	--	–	37,226
South Africa	5	388,500	177,000	59,500	81,400	57,800	18,000	66,300	125,150
TOTAL	422	40,116,443	11,350,537	3,079,002	4,177,488	4,656,348	1,114,640	4,974,752	10,618,954

See notes and sources at end of table

Section VIII
Table 8a

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1988)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro- cracking	Catalytic Hydro- refining	Catalytic Hydro- treating
Canada	27	1,868,900	654,650	78,150	385,550	368,650	189,550	23,900	755,580
Caribbean	11	1,387,800	605,300	165,000	79,000	195,650	15,000	244,500	518,150
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	–	121,500
Puerto Rico	2	123,000	59,300	--	12,000	5,800	15,000	10,000	15,700
Trinidad	2	300,000	171,000	18,000	25,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	–	125,000	--	130,000	290,000
Latin America	65	5,600,048	2,428,735	484,700	1,093,355	281,218	41,900	546,100	523,553
Brazil	13	1,407,300	698,000	33,800	350,500	24,800	--	–	133,400
Mexico	9	1,354,000	600,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,600	138,000	193,100	6,000	--	296,100	–
Europe	125	14,955,230	4,873,029	1,785,630	1,763,450	2,147,632	261,500	1,969,647	4,500,407
France	14	1,940,600	678,600	163,550	288,800	258,700	13,500	262,300	552,400
Germany (West)	16	1,647,800	619,800	286,400	174,700	307,100	96,200	326,700	652,150
Italy	19	1,563,100	723,200	388,400	277,400	289,600	55,000	301,900	596,700
Netherlands	7	1,381,000	401,370	151,560	125,500	157,400	30,000	148,200	522,400
Spain	10	1,305,000	374,800	178,000	143,500	189,100	15,000	190,500	283,000
United Kingdom	15	1,802,700	806,090	152,000	392,000	367,500	21,000	115,600	776,590
Middle East	37	4,146,222	1,167,746	237,999	173,660	487,796	386,510	603,652	676,693
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	628,000	217,000	--	30,000	51,000	159,000	338,100	36,000
Saudi Arabia	7	1,375,000	271,655	27,000	76,000	178,900	65,100	39,000	314,000
Asia-Pacific	102	10,274,302	3,017,840	495,700	945,370	1,073,240	246,250	1,752,330	3,218,140
India	12	1,058,742	327,570	113,900	133,470	26,690	--	13,800	77,890
Japan	43	4,566,850	1,675,940	82,800	557,150	533,940	50,950	1,393,200	2,083,660
Korea	5	820,000	33,400	30,000	–	59,450	7,000	21,000	92,800
Singapore	5	858,000	256,100	137,700	–	54,300	48,100	83,600	235,400
Africa	43	2,630,250	344,037	87,170	142,040	303,582	31,500	101,600	568,512
Algeria	4	464,700	15,000	--	--	55,600	--	–	23,600
Egypt	7	452,110	46,725	16,470	–	30,940	--	–	84,386
Libya	3	329,400	3,432	--	–	14,582	--	–	37,226
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	410	40,862,752	13,091,337	3,334,349	4,582,425	4,857,768	1,172,210	5,241,729	10,761,035

See notes and sources at end of table

Section VIII
Table 8b

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1989)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,855,800	657,850	88,250	387,600	369,600	206,350	51,000	771,600
Caribbean	10	1,385,000	605,200	165,000	82,000	194,950	15,000	246,500	502,700
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	--	121,500
Puerto Rico	2	123,000	59,300	--	12,000	5,800	15,000	12,000	--
Trinidad	2	300,000	171,000	18,000	28,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	67	5,598,438	2,427,796	490,600	1,105,710	287,560	41,900	546,100	529,419
Brazil	13	1,407,300	698,000	33,800	350,500	24,800	--	--	133,400
Mexico	9	1,354,000	600,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,000	138,000	193,100	6,000	--	296,100	--
Europe	124	14,687,759	4,750,895	1,737,730	1,867,978	2,045,389	274,000	1,958,866	4,460,292
France	14	1,875,970	684,500	152,850	319,200	247,000	13,500	264,900	523,000
Germany (West)	15	1,518,200	608,700	289,500	179,400	275,100	96,200	296,400	624,200
Italy	19	2,450,200	590,100	360,400	278,300	284,300	59,000	337,100	579,200
Netherlands	7	1,380,700	399,370	154,360	125,500	166,000	30,000	148,200	522,620
Spain	10	1,285,000	388,800	173,000	164,000	171,600	15,000	192,100	278,900
United Kingdom	15	1,803,100	806,840	152,000	442,000	307,500	21,000	115,600	776,590
Middle East	37	4,334,676	1,309,981	293,184	188,660	471,142	403,080	471,896	947,725
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	817,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	7	1,375,000	280,655	32,000	76,000	180,900	70,100	40,000	340,000
Asia-Pacific	102	10,064,786	3,005,841	506,490	987,503	1,096,190	324,450	1,756,360	3,010,560
India	12	1,051,441	332,996	110,670	133,953	26,030	6,000	13,800	77,630
Japan	41	4,362,750	698,940	82,800	596,950	531,650	101,750	1,370,280	1,973,740
Korea	6	880,000	67,000	49,000	--	62,000	29,000	21,000	110,800
Singapore	5	852,000	256,000	137,700	--	58,000	48,100	80,600	243,400
Africa	44	2,786,987	397,217	94,170	174,000	331,182	31,500	105,700	551,248
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	8	489,203	46,725	16,470	--	30,940	--	--	84,386
Libya	3	329,400	3,432	--	--	13,982	--	--	37,126
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	411	40,713,446	13,154,780	3,375,424	4,793,451	4,796,013	1,296,280	5,136,422	10,773,544

See notes and sources at end of table

Section VIII
Table 8c

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1990)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,851,800	642,950	88,250	387,470	372,450	206,350	51,000	735,060
Caribbean	11	1,385,700	613,900	165,000	83,500	212,740	15,000	234,500	552,500
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	--	121,500
Puerto Rico	2	123,000	68,000	--	13,500	26,500	15,000	--	47,800
Trinidad	2	300,000	171,000	18,000	28,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	68	5,768,236	2,543,401	491,126	1,088,410	282,980	41,900	546,100	529,969
Brazil	13	1,397,100	749,100	38,300	331,100	21,000	--	--	135,250
Mexico	9	1,514,000	680,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,600	138,000	193,100	6,000	--	296,100	--
Europe	145	14,938,489	4,867,981	1,807,818	2,059,683	2,043,048	309,000	2,044,970	4,443,806
France	14	1,819,900	684,500	152,850	325,500	247,400	13,500	269,900	514,600
Germany (West)	16	1,507,200	660,700	283,262	182,700	283,300	108,200	435,500	503,400
Italy	21	2,803,600	687,400	412,900	305,700	334,850	59,000	336,300	675,900
Netherlands	7	1,380,700	404,400	155,060	125,500	178,600	52,000	148,200	545,900
Spain	10	1,293,000	399,000	174,000	173,300	172,000	15,000	156,100	333,600
United Kingdom	15	1,253,200	560,590	131,000	321,500	205,400	22,000	41,000	620,390
Middle East	37	4,681,236	1,608,957	296,684	198,900	529,600	411,080	554,723	1,084,460
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	7	1,007,000	416,655	34,000	82,400	167,600	78,100	62,900	353,100
Asia-Pacific	102	10,010,867	3,009,395	553,920	1,023,445	1,091,905	372,990	1,664,620	3,098,069
India	12	1,079,842	334,200	110,670	136,370	26,230	--	13,800	71,231
Japan	41	4,198,450	1,654,140	85,800	617,225	531,800	152,750	1,279,040	1,964,315
Korea	6	867,000	83,400	48,700	--	62,450	29,000	21,000	110,800
Singapore	5	830,000	258,000	170,500	--	61,300	49,000	80,600	251,600
Africa	44	2,777,875	386,847	87,170	172,700	325,132	34,200	103,600	601,723
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	8	489,203	46,725	16,470	--	30,940	--	--	84,386
Libya	3	329,400	3,432	--	--	14,182	--	--	37,226
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	435	41,414,203	13,673,431	3,489,968	5,014,108	4,857,855	1,390,520	5,199,513	11,045,587

See notes and sources at end of table

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1991)

Area/ Country	Number of Plants	Crude Capacity	Vacuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,882,060	674,945	88,978	387,870	367,060	204,803	47,300	744,745
Caribbean	11	1,333,200	572,900	215,000	80,000	195,240	15,600	134,000	558,700
Netherland Antilles	1	320,000	158,000	127,000	42,000	15,000	--	--	125,000
Puerto Rico	2	125,000	68,000	--	12,000	25,500	15,600	--	46,700
Trinidad	2	246,000	130,000	8,000	26,000	14,400	--	4,000	46,100
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	68	5,940,675	2,636,567	530,665	1,067,455	282,850	41,900	551,500	547,599
Brazil	13	1,411,520	725,985	39,765	316,585	23,610	--	--	155,860
Mexico	9	1,679,000	760,700	82,000	267,000	157,800	18,000	253,000	206,000
Venezuela	6	1,167,000	548,370	134,100	139,000	6,000	--	277,700	700
Europe	140	15,438,461	5,648,417	1,889,365	2,093,660	2,330,765	429,040	2,027,206	4,750,471
France	14	1,815,630	729,910	172,990	349,480	246,760	13,440	267,040	614,540
Germany (West)	20	2,065,400	998,100	386,962	240,250	376,500	168,200	541,200	696,110
Italy	21	2,385,358	828,968	390,450	306,300	315,050	59,000	327,300	630,200
Netherlands	7	1,196,700	423,400	160,060	128,000	182,600	53,000	164,000	467,100
Spain	10	1,321,000	393,200	179,500	157,300	191,000	15,000	75,000	210,100
United Kingdom	15	1,866,940	843,990	146,000	444,500	366,300	54,000	115,600	846,090
Middle East	39	5,020,826	1,516,620	335,685	202,201	527,069	409,080	546,907	1,130,238
Iran	5	720,000	284,840	92,500	--	105,397	93,180	20,550	105,400
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	8	1,862,500	425,555	71,900	87,541	183,922	76,100	44,650	478,300
Asia-Pacific	102	10,360,985	3,166,095	565,668	1,060,445	1,168,763	354,670	1,667,280	3,354,826
India	12	1,122,360	365,000	114,875	136,970	28,233	--	--	99,133
Japan	41	4,383,400	1,721,365	76,900	629,975	607,970	113,350	1,321,940	2,097,325
Korea	6	867,000	83,400	48,700	--	62,450	29,000	21,000	110,800
Singapore	5	878,000	271,200	190,700	--	63,600	71,000	91,600	261,600
Africa	44	2,871,583	376,757	102,670	172,700	333,981	36,200	119,200	548,237
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	8	523,153	47,000	16,470	--	33,540	--	15,000	76,878
Libya	3	347,600	3,432	--	--	13,882	--	--	36,826
South Africa	4	430,500	102,000	72,000	84,400	62,600	20,000	77,300	141,850
TOTAL	432	42,847,790	14,592,301	3,728,031	5,064,331	5,205,728	1,491,293	5,093,393	11,634,816

See notes and sources at end of table

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1992)

Area/ Country	Number of Plants	Crude Capacity	Vacuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,905,050	681,000	88,550	402,670	371,100	208,650	46,500	743,060
Caribbean	13	1,496,200	690,500	193,500	81,700	210,940	85,600	144,000	565,300
Netherland Antilles	2	470,000	278,000	99,000	42,000	15,000	70,000	0	125,000
Puerto Rico	2	123,000	65,000	0	13,700	26,500	15,600	10,000	37,800
Trinidad	2	246,000	130,000	8,000	26,000	27,900	0	4,000	59,600
Virgin Islands	1	545,000	215,000	80,000	0	125,000	0	130,000	290,000
Latin America	67	5,778,475	2,599,527	559,565	1,126,935	317,560	41,900	503,900	669,670
Brazil	13	1,406,220	727,835	68,165	317,085	23,610	0	0	155,860
Mexico	8	1,574,000	712,700	62,000	243,000	187,800	18,000	303,000	242,000
Venezuela	6	1,171,000	546,800	134,100	220,700	8,900	0	180,100	95,300
Europe	147	16,039,043	5,920,561	2,063,019	2,227,984	2,444,647	497,674	2,146,670	5,106,679
France	14	1,815,630	729,910	172,990	356,260	248,760	13,440	267,040	614,540
Germany (West)	20	2,061,800	998,100	380,600	234,250	379,400	170,200	541,200	700,060
Italy	19	2,386,358	828,868	451,450	314,300	299,850	65,000	342,500	650,900
Netherlands	6	1,218,500	436,600	162,100	128,000	186,600	53,000	164,000	481,100
Spain	10	1,321,000	393,200	179,500	157,300	195,600	15,000	75,000	210,200
United Kingdom	15	1,856,140	830,650	149,000	454,500	368,200	60,800	133,100	823,190
Middle East	39	4,992,894	1,541,095	349,285	204,041	527,486	409,080	489,207	1,213,632
Iran	5	720,000	284,840	92,500	0	105,400	93,180	20,550	105,400
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	8	1,862,500	425,555	71,900	87,541	183,922	76,100	44,650	478,300
Asia-Pacific	102	10,953,035	3,127,605	518,435	1,094,995	1,273,253	398,680	1,886,960	3,171,476
India	12	1,122,360	365,000	114,875	136,970	28,233	0	0	99,133
Japan	41	4,612,450	1,690,575	76,900	646,025	632,570	164,500	1,549,340	1,732,050
Korea	6	1,163,100	89,400	19,000	0	130,000	22,000	0	278,580
Singapore	5	893,000	271,200	188,500	0	63,600	71,400	91,600	261,600
Africa	44	2,866,103	378,402	102,670	172,700	329,987	36,200	122,000	549,910
Algeria	4	464,700	15,000	0	0	55,600	0	0	23,600
Egypt	8	523,153	47,000	16,470	0	33,540	0	15,000	76,878
Libya	3	348,400	3,432	0	0	14,182	0	0	36,826
South Africa	4	430,500	102,000	72,000	84,400	62,600	20,000	77,300	141,850
TOTAL	440	44,030,800	14,938,690	3,875,024	5,311,005	5,474,973	1,677,784	5,339,237	12,019,727

(a) Excluding the United States, the U.S.S.R., and China.

SOURCE: 1987-1991: Oil and Gas Journal, "Worldwide Report" issues
1992: Oil and Gas Journal, Worldwide Refining Report

Section VIII
Table 9

Nelson Refinery Operating Cost Indexes
(1956 = 100)

Year	Fuel and Power Cost	Wage Rate	Productivity of labor	Labor Cost	Investment Related	Chemicals and Catalyst	Nelson Operating Indexes	
							Refineries	Processes
1956	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1957	115.1	104.1	98.1	106.1	105.4	102.2	106.7	107.7
1958	102.1	105.4	100.3	105.0	109.5	104.4	105.8	105.8
1959	103.5	111.5	109.0	102.3	113.7	107.8	106.8	106.0
1960	109.9	113.0	112.9	100.3	116.9	114.3	108.8	107.2
1961	106.7	119.2	122.3	97.5	119.2	103.2	106.7	106.4
1962	100.9	123.9	131.8	93.9	121.7	96.7	103.7	103.6
1963	104.4	129.1	142.7	90.5	115.2	95.6	100.8	100.6
1964	102.8	132.8	149.1	89.1	114.5	99.0	100.2	100.5
1965	106.1	138.8	157.2	88.3	116.0	119.3	104.6	106.2
1966	105.6	145.4	165.9	87.7	103.2	130.9	102.8	100.3
1967	104.7	152.4	165.1	92.3	103.6	128.6	104.1	101.2
1968	103.8	158.0	173.1	91.8	103.6	124.3	103.5	101.3
1969	107.1	171.3	187.6	91.3	104.3	125.9	104.3	102.5
1970	129.2	183.1	179.9	101.8	115.7	127.4	113.9	117.6
1971	166.4	194.9	185.6	105.0	115.7	120.1	117.4	133.3
1972	166.8	210.0	197.0	107.1	162.3	112.2	118.5	147.0
1973	186.8	221.2	214.9	102.9	193.0	117.3	125.7	168.0
1974	310.5	243.9	201.5	121.1	215.8	153.2	159.7	222.5
1975	376.8	273.9	206.0	133.0	246.5	186.7	189.3	258.5
1976	384.5	314.3	216.2	145.5	252.6	195.2	209.3	267.1
1977	430.5	346.2	231.4	149.6	263.6	184.4	228.2	287.8
1978	422.4	388.6	229.4	169.6	280.7	191.8	243.2	297.0
1979	605.7	424.8	222.5	191.1	300.2	216.6	278.3	374.4
1980	810.5	439.9	226.3	200.6	325.2	229.2	312.7	457.5
1981	1016.0	512.8	188.8	271.9	357.2	237.7	373.3	562.2
1982	931.9	574.7	178.6	321.8	384.1	234.1	396.6	557.2
1983	913.8	621.9	186.7	334.5	415.3	231.3	412.9	565.5
1984	968.3	629.9	204.5	308.0	436.6	233.4	417.4	584.2
1985	878.9	642.3	219.7	293.4	445.8	222.9	406.8	551.7
1986	548.8	651.8	253.8	259.4	460.0	206.7	369.0	430.8
1987	554.1	663.2	261.8	253.5	473.2	192.8	371.8	435.6
1988	445.2	689.8	264.6	260.8	489.3	213.9	373.7	405.3
1989	503.0	709.3	275.9	257.4	502.5	230.4	384.9	429.1
1990	558.1	753.7	279.2	270.5	512.9	233.6	399.7	456.0

SOURCE: Oil and Gas Journal.

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District I					
American Refining Group, Inc.	Indianaola, Pa.	180	03/84	12/85	3
Amoco Oil Co.	Baltimore, Md.	15,000	01/82	03/82	25+
Ashland Oil Inc.	Buffalo, N.Y.	64,000	07/82	12/84	36+
Ashland Oil Inc.	Freedom, Pa.	6,800	04/85	12/85	37+
ATC Petroleum Inc.	Newington, N.H.	13,400	07/81	12/81	7
Chevron U.S.A. Inc.	Baltimore, Md.	14,200	12/86	12/86	38
City Gas and Transmission Corp.	Wilmington, N.C.	10,000	05/81	12/89	11
Elk Refining Co. (division of Pennzoil Co. Inc.)	Falling Rock, W.Va.	5,600	12/82	12/82	25+
Manatee Energy Co.	Port Manatee, Fl.	28,400	05/81	10/81	2
Mobil Oil Corp.	Buffalo, N.Y.	43,000	05/81	07/81	25+
Phoenix Refg. Co.	St. Mary's, W.V.	19,200	11/90	01/91	
Quaker State Oil Refining Corp.	Emlenton, Pa.	0	12/83	12/83	25+
Seminole Refining Corp.	St. Marks, Fl.	17,000	05/87	03/88	28
Virginia Oil & Refining Co.,Inc.	Jonesville, Va.	1,000	08/87	12/87	2
TOTAL PAD I		237,780			
PAD District II					
Allied Materials Corp.	Stroud, Ok.	7,600	12/84	02/85	37+
Amoco Oil Co.	Sugar Creek, Mo.	104,000	05/82	06/82	25+
Amoco Oil Co.	Wood River, Il.	104,000	05/81	10/81	25+
Ashland Oil Inc.	Findlay, Oh.	20,400	02/82	12/84	36+
Ashland Oil Inc.	Louisville, Ky.	25,200	04/82	12/84	36+
B-T Energy Corp.	Louisville, Ky.	3,000	11/84	11/85	3
Champlin Petroleum Co.	Enid, Ok.	53,800	06/83	12/83	25+
Chevron U.S.A. Inc.	Cincinnati, Oh.	43,700	05/86	08/86	38+
Conoco Inc.	Wrenshall, Mn.	23,500	05/81	09/81	5
CRA, Inc.	Scottsbluff, Nb.	5,600	05/82	06/82	25+
Dillman Oil Recovery Inc.	Oblong, Il.	1,200	01/81	02/82	4+
Dow Chemical U.S.A.	Bay City, Mi.	20,000	05/80	09/81	25+
E-Z Serv Refining Inc.	Shallow Water, Kn.	9,500	04/81	02/82	25+
Energy Cooperative Inc.	East Chicago, In.	126,000	05/81	06/82	25+
Energy Development	Crossville, Il.	1,000	02/81	04/81	22
Flying J Petroleum Inc.	Williston, N.D.	4,600	08/84	12/87	32
Gladieux Refinery Inc.	Fort Wayne, In.	19,000	12/85	06/86	27+
Gulf Oil Corp.	Toledo, Oh.	50,300	06/81	11/81	25+
Hudson Refining Co. Inc.	Cushing, Ok.	19,000	12/82	11/83	6
Indiana Refining Inc.	Princeton, In.	5,000	12/80	02/81	23
Industrial Fuel and Asphalt of Indiana Inc.	Hammond, In.	7,600	12/81	06/82	25+
Kentucky Oil & Refining	Betsy Layne, Ky.	600	02/81	11/88	21
Lakeside Refining Co.	Kalamazoo, Mi.	5,600	09/85	12/87	39
Mid-America Refining Co. Inc.	Chanute, Kn.	3,000	03/81	07/82	25+
Motor Oils Refining	McCook, Il.	1,500	01/88	02/88	6
Northland Oil and Refining Co.	Dickinson, N.D.	5,000	02/81	02/82	7
Oklahoma Refining Co.	Cyril, Ok.	12,750	12/84	12/84	36+
Okmulgee Refining Co.	Okmulgee, Ok.	25,000	06/82	12/82	25+

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District II(cont)					
Phillips Petroleum Co.	Kansas City, Kn.	80,000	08/82	09/82	25+
Texaco Inc.	Lockport, Il.	72,000	04/81	10/81	25+
Texas American Petrochemical Inc.	West Branch, Mi.	11,500	09/81	02/82	25+
Tonkawa Refining Co.	Arnett, Ok.	12,000	06/84	09/84	16
Tosco Corp.	Duncan, Ok.	47,000	06/83	12/84	35
Wireback Oil Co.	Plymouth, Ok.	1,800	02/81	03/81	25+
TOTAL PAD II		931,750			
PAD District III					
Adobe Refining Co., div. of Funding Systems Refining Corp.	La Blanca, Tx.	5,200	11/81	12/81	25+
Amber Refining Inc.	Fort Worth, Tx.	19,700	12/85	12/88	42
Bayou State Oil Corp.	Houston, La.	3,000	01/81	03/82	25+
Brio Refining Inc.	Friendswood, Tx.	12,500	09/82	12/82	4
Bronco Refining Co.	Houston, Tx.	2,250	04/81	07/82	1
Carbonit Refining Co.	Hearne, Tx.	11,000	02/81	12/81	6
Caribou-Four Corners Inc.	Farmington, N.M.	2,200	05/82	08/84	19
Clark Oil & Refining Corp.	Mt. Airy, La.	0	12/86	12/87	39
Clinton Manges	Palestine, Tx.	6,000	07/81	07/82	25+
Conoco Inc.	Alvin/Texas City, Tx.	33,274	10/85	12/85	22
Conoco Inc.	Egan, La.	2,800	12/86	02/89	16
Copano Refining Co.	Ingleside, Tx.	11,100	09/81	02/82	4
Damson Gas Processing Corp.	White Deer, Tx.	0	02/85	05/85	12
Donna Refining Partners Ltd.	Donna, Tx.	4,750	11/89	12/89	1
Dorchester Refining Co.	Mt. Pleasant, Tx.	26,500	09/84	12/84	36+
Dow Chemical U.S.A.	Freeport, Tx.	190,000	08/81	06/82	1
Eagle Refining	Jackson, Tx.	1,800	01/90	10/90	
Eddy Refining Co.	Houston, Tx.	3,250	10/84	11/84	36+
Erickson Refining Corp.	Pt. Neches, Tx.	30,000	12/81	08/83	4
Evangeline Refining Co.	Jennings, La.	4,500	12/82	12/82	25+
Flint Chemical Co.	San Antonio, Tx.	1,500	01/85	03/85	23
GAMXX Energy Inc.	Theodore, Al.	27,000	01/88	03/88	17
Giant Industries Inc.	Farmington, N.M.	13,500	05/82	11/82	7
Gulf Oil Corp.	Venice, La.	28,700	04/81	12/81	13
Imron Refg., Inc.	San Leon, Tx	7,000	NA	08/90	0
Independent Refining Corp.	Winnie, Tx.	50,000	10/81	08/83	23
Liquid Energy Corp.	Bridgeport, Tx.	10,000	02/87	10/88	6
MacMillan Petroleum Co.	Norphlet, Ar.	5,800	08/87	12/87	39
Mallard Resources Inc.	Gueydan, La.	7,400	11/83	12/83	4
McTan Refining Corp.	St. James, La.	19,300	07/81	08/83	6
Mid-Gulf Energy Corp.	Ingleside, Tx.	39,400	10/83	05/84	6
Natchez Refining Co.	Natchez, Ms.	16,000	06/82	09/82	2
OGC Corp.	Egan, La.	5,000	09/87	10/88	2
Petraco-Valley Oil Refining Co.	Brownsville, Tx.	12,300	03/83	12/83	5
Petromax Refining Co.	Houston, Tx.	2,000	09/85	05/86	4
Placid Oil Co.	Mont Belvieu, Tx.	8,500	01/82	07/82	2
Port Petroleum Inc.	Stonewall, La.	3,200	12/83	02/84	4
Quintana Petrochemical Co.	Corpus Christi, Tx.	33,300	07/84	09/84	30

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District III(cont)					
Quitman Refining Co.	Quitman, Tx.	6,600	04/82	06/82	4
Rio Grande Crude Refining	Brownsville, Tx.	9,500	06/81	06/82	3
Rio Grande Recovery Systems Inc.	Brownsville, Tx.	1,000	05/81	02/82	2
Sabine Resources Group	Stonewall, La.	10,000	NA	12/90	0
Schulze Processing Inc.	Tallulah, La.	1,760	05/81	08/82	4
Shepard Oil Co.	Jennings, La.	10,000	05/81	02/82	4
Shore, Inc.	Kilgore, Tx.	550	03/83	07/83	3
Sooner Refining Co.	Darrow, La.	8,000	01/82	02/82	2
Southern Union Refining Co.	Monument, N.M.	5,400	01/81	10/81	25+
Southern Union Refining Co.	Lovington, N.M.	36,100	08/84	11/84	8
Southland Oil Co.	Yazoo City, Ms.	5,500	02/81	07/81	25+
Tesoro Petroleum Corp.	Carrizo Springs, Tx.	26,100	07/84	12/84	27
T & S Refining Co.	Jennings, La.	10,500	07/81	03/82	2
Texaco Refining and Marketing Inc.	Amarillo, Tx.	20,000	04/85	12/85	37+
Texas NAPCO Inc.	St. James, La.	17,000	08/83	12/88	15
Texas Refining Co.	Midland, Tx.	2,500	04/81	06/81	1
Texas Standard Refining Inc.	Houston, Tx.	1,800	01/81	10/81	*(a)
Thriftway Oil Co.	Graham, Tx.	1,184	04/81	11/83	25+
Tipperary Refining Co.	Ingleside, Tx.	7,320	01/82	03/82	4
Tropicana Energy Co.	Ft. Worth (Euless),Tx.	4,650	12/83	12/85	19
Unocal Corp.	Nederland, Tx.	120,000	12/89	12/89	6
Vulcan Refining	Crdova, Al.	9,500	09/90	12/90	
Warrior Asphalt Refining Corp.	Holt, Al.	4,000	08/89	12/89	34
Wickett Refining Co.	Wickett, Tx.	8,000	01/76	02/82	25+
TOTAL PAD III		986,688			
PAD District IV					
Caribou-Four Corners Inc.	Woods Cross, Ut.	8,400	12/82	12/84	21
C & H Refinery Inc.	Lusk, Wy.	180	01/81	02/82	25+
Flying J. Petroleum Inc.	Cutbank, Mt.	5,600	03/83	02/88	36
Glacier Park Co.	Osage, Wy.	10,000	02/81	03/82	4
Glenrock Refinery Inc.	Glenrock, Wy.	6,000	04/81	09/81	5
Husky Oil Co.	Cody, Wy.	11,500	06/82	09/82	25+
Kenco Refining Inc.	Wolf Point, Mt.	4,700	10/85	12/85	8
Morrison Petroleum Co.	Woods Cross, Ut.	6,000	12/85	12/85	11
Mountaineer Refining Co.,Inc.	LaBarge, Wy.	350	12/87	06/88	13
Sage Creek Refining Co.	Cowley, Wy.	1,000	01/82	06/82	17
Silver Eagle Oil Co.	LaBarge, Wy.	3,000	10/82	12/87	13
Southwestern Refining Co.	La Barge, Wy.	1,040	04/81	08/81	7
Texaco Inc.	Casper, Wy.	21,000	03/82	07/82	25+
TOTAL PAD 1V		78,770			
PAD District V					
Arizona Fuels Corp.	Fredonia, Az.	6,000	02/83	09/83	11
Beacon Oil Co.	Hanford, Ca.	17,300	11/87	12/87	27
Chevron U.S.A. Inc.	Bakersfield, Ca.	26,000	04/86	07/86	38+
Coastal Petroleum Refiners Inc.	Bakersfield, Ca.	10,000	06/85	12/85	6
Demenno-Kerdoon	Compton, Ca.	10,000	01/83	08/83	6

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1991

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District V(cont)					
Gibson Oil & Refining	Bakersfield, Ca.	9,600	07/87	12/90	
Golden Eagle Refining Co.,Inc.	Carson, Ca.	16,170	11/84	02/85	37+
Newhall Refining Co.,Inc.	Newhall, Ca.	22,500	11/89	12/89	42
Quad Refining Corp.	Bakersfield, Ca.	7,000	08/80	10/81	2
Road Oil Sales Inc.	Bakersfield, Ca.	6,000	01/81	12/81	9
Sabre Refining Inc.	Bakersfield, Ca.	10,000	12/86	09/87	16
Tosco Corp.	Bakersfield, Ca.	38,800	11/83	11/84	33
United Independent Oil Co.	Tacoma, Wa.	730	07/80	03/82	7
U.S.A. Petrochemical Corp.	Venturam, Ca.	24,000	12/84	12/84	7
West Coast Oil Co.	Oildale, Ca.	5,000	10/85	10/88	32
Western Oil & Refining	Long Beach, Ca.	19,200	02/84	12/87	11
TOTAL PAD V		228,300			
TOTAL UNITED STATES		2,463,288			

(a) Less than one year.

SOURCE: U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annuals.

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1960		1970		1980		1983	
Company	Capacity	Company	Capacity	Company	Capacity	Company	Capacity
Standard of New Jersey	961.7	Standard of New Jersey	1,087.0	Exxon	1,557.0	Standard of California	1296.5
Texaco	724.0	Standard of Indiana	1,040.4	Standard of California	1,383.7	Exxon	1200
Socony-Mobil	716.7	Texaco	1,029.5	Standard of Indiana	1,238.0	Standard of Indiana	1011
Standard of Indiana	675.4	Shell	1,011.5	Shell	1,123.4	Shell	1005.2
Standard of California	647.5	Standard of California	969.0	Texaco	1,059.0	Gulf(a)	849.2
Shell	594.0	Mobil	794.9	Gulf(a)	949.2	Texaco	815
Gulf	500.6	Gulf(a)	751.6	Mobil	835.7	Mobil	750
Sinclair	473.0	Atlantic Richfield	681.2	Atlantic Richfield	811.2	Atlantic Richfield	701
Cities Service	293.0	Sun	455.0	Sun(b)	521.5	U.S. Steel	492.5
Phillips	274.3	Union	444.0	Marathon	513.0	Standard of Ohio	456
Sun	255.0	Standard of Ohio	439.0	Union	490.0	Sun(b)	443
Tidewater	253.5	Phillips	398.0	Ashland	462.9	DuPont	415.8
Continental	216.0	Ashland	318.3	Standard of Ohio	452.0	Unocal(d)	370.5
Atlantic	210.0	Continental	299.0	Conoco	448.1	Ashland	353.3
Pure	187.0	Cities Service	281.0	Phillips	397.0	Southland(Citgo)(e)	297
Union	181.0	Getty	207.0	Cities Service	291.0	Phillips	295
Sunray Mid-Continent	171.0	Marathon	205.0	Union Pacific	283.8	Getty	258.6
Standard of Ohio	170.5	Coastal States Gas	135.0	Coastal	278.0	Koch	242
Ashland	168.5	Amerada Hess	125.0	Getty	261.5	Union Pacific	215
Richfield	165.0	Union Pacific	122.5	Tosco	260.5	Coastal	171.3
U.S. TOTAL	9,629.7	U.S. TOTAL(c)	12,811.0	U.S. TOTAL(c)	18,279.3	U.S. TOTAL(c)	14949.1

See notes and sources at end of table

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1984		1985		1986		1987	
Company	Capacity	Company	Capacity	Company	Capacity	Company	Capacity
Chevron(f)	2029.3	Chevron(a)(f)	1879.2	Chevron(h)	1845	Chevron	1718.6
Exxon	1182	Exxon	1200	Exxon	1143.5	Exxon	1169
Shell	1005	Shell	1019.6	Shell	1045.8	Shell	1065.7
Standard of Indiana	986	Amoco (Std. of Ind.)	982	Amoco	967	Amoco	939
Texaco(g)	939	Texaco	873.2	Texaco	886	Texaco	881.5
Mobil	750	Mobil	755	Mobil	755	Mobil	755
Atlantic Richfield	741	Standard Oil (Ohio)	664.5	ARCO (Atlantic ichfield)	673	ARCO	668
U.S. Steel	492.5	Atlantic Richfield	655	Standard Oil	667.6	BP America (Standard Oil)(i)	667.6
Standard of Ohio	456	U.S. Steel	492.5	USX (U.S. Steel)	513	USX	513
Sun(b)	443	Unocal	474.5	Unocal	490	Unocal	497
DuPont	429.8	Sun(b)	443	Sun(b)	443	Sun(b)	460
Ashland	353.3	DuPont	400	DuPont	393.2	DuPont	394.3
Unocal	339	Ashland	346.5	Ashland	346.5	Ashland	346.5
Phillips	300	Phillips	300	Coastal	318.3	Phillips	305
Southland	297	Southland	297	Phillips	305	Coastal	290.4
Koch	262	Koch Industries	280	Citgo (Southland)	297	Koch	280
Union Pacific	217	Coastal	261.3	Koch Industries	280	Petroleos de Venezuela(l)	226.1
Coastal	171.3	Union Pacific	220	Union Pacific	218.4	Total Petroleum	191.1
Kerr-McGee	164.8	Kerr-McGee	164.8	Kerr-McGee	155.8	Kerr-McGee	164.8
Tosco	164.5	Total	152	Solomon (Philbro)	154.4	Solomon	155.7
U.S. TOTAL(c)	14481.6	U.S. TOTAL(c)	14761.5	U.S. TOTAL(c)	15067.8	U.S. TOTAL(c)	15139

See notes and sources at end of table

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1988		1989	
Company	**Capacity**	**Company**	**Capacity**
Chevron	1660	Chevron	1,621.0
Exxon	1181	Exxon	1,147.0
Shell	1082.6	Shell	1,078.6
Amoco	959	Amoco	956.0
Texaco(j)	894	Movil	838.0
Mobil	823	BP America	756.6
BP America	756.6	USX	603.0
ARCO	686	Texaco(m)	595.0
Sun(k)	590	Sun(k)	595.0
USX	553	ARCO(n)	559.0
Unocal	442.1	DuPont	406.5
DuPont	397.3	Ashland	346.5
Ashland	346.5	Petroleos de Venezuela(o)	344.5
Coastal	320.8	Koch	310.0
Phillips	305	Phillips	305.0
Koch	305	Coastal(p)	302.8
Solomon	276.1	Unocal(q)	295.6
Petroleos de Venezuela(l)	217.5	Aramco(r)	295.0
Total Petroleum	184.1	Solomon	277.1
American Petrofina	165	Total Petroleum	190.1
U.S. TOTAL(c)	15096.8	U.S. TOTAL(c)	15,183.6

See notes and sources at end of table

Section VIII
Table 11c

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

(a) Includes volumes from Gulf's Bayamon refinery in Puerto Rico.
(b) Includes volumes from Sun's Yabucoa refinery in Puerto Rico.
(c) Includes Puerto Rico.
(d) Unocal Corporation is the parent of Union Oil Company of California.
(e) Southland acquired the refining, marketing and transportation sections of Citgo Petroleum Corp., a subsidiary of Occidental, on September 1, 1983
(f) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure reflects this acquisition which also includes volumes from a refinery in Bayamon, Puerto Rico.
(g) Texaco acquired Getty Oil Company on March 1
(h) Includes 38 mbd from a refinery in San Juan, Puerto Rico.
(i) BP America was formed in 1987 through the acquisition of The Standard Oil Company by BP North America Inc.
(j) Texaco's figure includes 615,000 b/d from Star Enterprise, a joint venture formed on December 31, 1988 between Texaco and Aramco Services (the Saudi Arabian Oil Company)
(k) Sun's figure includes 85,000 b/d from a refinery in Yabucoa, Puerto Rico and 125,000 b/d from Sun's acquisition of Atlantic Petroleum Corporation's operations on November 1, 1988.
(l) Petroleos de Venezuela, the Venezuelan national oil company, owns one-half of Citgo Petroleum and one-half of Champlin Refining Company. In 1988, Citgo's operable refining capacity averaged 305,000 b/d, and Champlin's averaged 130,000 b/d.
(m) Texaco's figure includes its equity portion of 295,000 b/d from Star Enterprise, a joint venture with Aramco Services.
(n) ARCO's figure includes the 49.9% share of the Lyondell Petrochemical Company (approximately 145,000 b/d) retained afer ARCO sold its majority interest in Lyondell in January 1989.
(o) On January 1, 1989 Petroleos de Venezuela (PDV) acquired the other equity share of Champlin Refining Company from Union Pacific Resources. On December 1, 1989 PDV acquired half of UNO-VEN, a joint venture formed with Unocal Corporation. PDV also owns one-half of Citgo Petroleum; the Southland Corporation owns the other half. In 1989 UNO-VEN's operable refining capacity averaged 147,000 b/d, and Citgo's averaged 282,000 b/d.
(p) In January 1989 Coastal sold half of its West Coast refining and marketing properties, including Pacific Refining Company (55,000 b/d operable refining capacity) to the China National Chemicals Import & Export Corporation (Sinochem)
(q) Unocal's figure includes its equity share of UNO-VEN's operations (73,000 b/d operable refining capacity), a joint venture formed on December 1, 1989 with PDV.
(r) Aramco's figure represents the operable refining capacity from its equity share of Star Enterprise, a joint venture with Texaco.

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R

Section VIII
Table 12

United States Gas Processing Capacities and Average Production(a)

	1984			1985			1986			1987		
State	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
AL	5	182.0	599.6	5	182.0	403.2	5	167.0	401.2	5	173.0	379.3
AK	2	62.0	56.8	2	62.0	50.3	2	82.0	39.0	3	3,382.0	41.3
AR	3	130.0	82.9	5	1,005.0	104.6	6	962.5	104.6	5	953.0	94.1
CA	37	1,483.1	1,280.1	34	1,167.6	1,267.3	36	1,066.0	1,340.3	36	1,015.2	1,277.0
CO	44	858.0	1,008.7	43	876.2	1,085.2	47	1,004.9	1,038.3	43	1,016.2	887.1
FL	3	961.5	374.0	3	934.0	353.9	3	799.0	454.8	2	790.0	428.6
IL	2	551.5	985.8	2	551.5	985.2	0	0.0	0.0	0	0	0
KS	25	4,901.5	1,942.4	27	5,124.0	2,480.2	28	5,646.0	2,280.8	26	5,429.5	2,264.6
KY	2	897.6	431.2	2	916.0	440.9	3	916.0	481.0	2	71.0	214.8
LA	106	22,194.5	9,852.3	97	22,983.5	11,253.5	94	20,366.4	10,085.2	86	19,941.6	10,129.7
MI	6	449.4	926.4	9	675.4	1,095.0	26	4,734.9	963.8	27	4,744.6	1,021.1
MS	7	1,005.0	51.6	6	995.0	55.1	6	995.0	55.5	5	899.0	45.9
MT	8	58.0	95.8	9	70.0	113.1	9	70.0	120.0	7	52.0	86.5
NE	2	13.5	11.9	2	13.5	11.6	2	13.5	10.5	2	3.5	6.5
NM	44	3,683.3	3,845.4	39	3,255.2	3,954.7	34	3,141.6	3,461.7	30	3,435.4	4,566.4
ND	9	306.8	520.3	11	314.2	663.0	10	284.3	537.6	11	346.7	558.5
OH	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
OK	104	4,857.6	5,570.3	110	4,884.9	6,243.9	108	4,989.8	5,692.2	109	4,949.0	5,432.2
PA	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
TX	415	23,504.6	24,782.4	399	21,071.0	26,638.5	384	19,630.8	26,548.6	357	19,045.5	25,659.2
UT	10	520.5	372.3	11	521.5	377.6	11	531.5	340.9	11	516.5	318.4
WV	6	410.0	698.0	6	416.0	715.9	7	430.0	794.4	7	379.0	766.5
WY	40	1,912.6	1,683.1	39	1,815.2	1,801.6	41	1,897.9	1,627.7	36	1,668.4	1,459.7
TOTAL U.S.	880	68,943.0	55,171.3	861	67,833.7	60,094.3	862	67,729.1	56,378.1	810	68,811.1	63685.0 (c)

See notes and sources at end of table

United States Gas Processing Capacities and Average Production(a)

	1988				1989			1990			1991		
State	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)		No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
AL	6	177.0	412.0		7	255.0	449.7	7	255.0	867.6	7	255.0	959.1
AK	4	3,385.5	2,188.4		3	3,333.5	2,160.2	4	4,073.5	2,359.2	4	5,773.5	2,739.2
AR	5	943.0	76.4		4	933.0	90.4	4	933.0	73.7	5	938.0	75.6
CA	36	1,028.9	1,299.1		34	999.7	1,347.9	34	1,032.7	1,201.2	32	1,090.7	1,144.0
CO	37	925.2	770.1		38	982.5	905.4	42	1,101.5	1,186.1	43	1,095.5	1,227.2
FL	2	790.0	409.4		2	790.0	338.3	2	890.0	358.0	2	890.0	310.3
IL	0	0	0		0	0.0	0	0	0	0	0	0.0	0
KS	25	5,592.5	2,615.8		24	5,562.5	2,749.7	25	5,448.1	2,531.2	23	5,191.0	2,897.2
KY	2	71.0	162.6		2	71.0	169.3	2	71.0	117.5	2	71.0	163.3
LA	79	19,492.5	10,197.9		77	18,921.1	9,962.6	80	18,720.5	9,674.8	75	18,666.0	9,832.4
MI	28	4,744.1	939.1		29	4,763.1	877.4	31	4,824.1	804.7	28	4,757.3	664.8
MS	6	901.0	54.8		6	901.0	39.0	7	902.2	44.5	6	898.2	41.0
MT	6	22.0	76.0		7	27.0	89.5	7	27.0	89.4	7	28.0	63.1
NE	2	3.5	7.2		1	1.5	0.4	1	1.5	0.4	0	0.0	0.0
NM	27	3,310.8	4,281.5		28	3,346.4	5,356.3	28	3,176.0	5,091.9	28	2,655.5	5,349.8
ND	9	308.0	483.4		8	193.6	463.5	8	165.0	384.7	8	128.0	399.2
OH	0	0.0	0.0		0	0.0	0.0	0	0.0	0.0	1	20.0	6.4
OK	106	4,571.4	5,787.0		101	4,613.5	7,440.0	103	4,433.5	6,765.4	101	4,678.0	7,813.6
PA	2	14.0	11.3		2	14.0	11.3	2	14.0	11.8	2	14.0	11.8
TX	325	17,802.2	24,981.7		311	16,786.0	29,200.9	315	16,621.4	28,247.8	301	16,470.1	28,023.7
UT	11	485.5	399.8		12	522.5	422.3	12	537.5	299.0	12	522.5	306.4
WV	7	399.0	730.9		7	397.0	779.7	7	397.0	792.6	7	397.5	745.8
WY	39	2,864.0	5,048.0		39	3,333.0	5,318.0	40	3,489.5	3,387.5	40	3,660.3	4,423.7
TOTAL U.S.	764	67,831.1	68,240.4	(c)	742	66,746.9	68,171.8	761	67,114.0	64,289.0	734	68,200.1	67,197.6

(a) Capacities as of January 1, production for the preceeding 12 months.

(b) Products include ethane, propane, butane, normal or unsplit butane LP-gas mix, raw NGL mix, debut natural gasoline and other.

(c) Includes data from Phillips Petroleum Co., Bartlesville, Okla., not provided in state-by-state totals.

SOURCE: Oil and Gas Journal, Annual Gas Processing Report issue.

Section VIII
Table 13

World Gas Processing Capacities and Average Production(a)

	1984			1985			1986			1987		
Country	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
Abu Dhabi	4	2,048.0	2,790.3	5	2,498.0	1,179.3	5	2,498.0	1,179.3	5	2,498.0	1,179.3
Algeria	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0
Argentina	11	1,715.9	1,656.2	11	1,715.9	1,656.2	11	1,715.9	1,701.7	11	1,715.0	1,697.9
Australia	4	1,707.0	1,932.0	4	1,707.0	1,920.0	5	2,070.0	6,284.0	5	2,007.0	6,005.0
Austria	2	5.7	0.9	2	5.7	0.3	2	5.7	0.0	2	5.7	--
Bahrain	1	127.7	353.8	1	145.0	354.9	1	143.0	335.4	1	168.0	363.3
Bangladesh	0	0.0	0.0	8	460.0	16.2	8	460.0	16.2	8	460.0	16.2
Bolivia	2	474.0	32.6	2	474.0	32.6	2	474.0	32.6	2	474.0	364.0
Brazil	5	295.3	448.6	5	312.0	596.3	6	369.4	711.7	6	369.4	711.7
Brunei	1	48.0	49.6	2	998.0	314.4	2	998.0	319.6	2	998.0	344.0
Canada	346	19,465.3	14,209.1	385	22,001.8	15,133.4	403	22,807.9	17,381.7	419	23,460.2	15,835.3
Chile	2	445.0	436.1	2	470.0	452.0	2	470.0	452.0	2	470.0	422.0
China, Taiwan	4	271.0	132.5	4	271.0	132.5	4	271.0	110.3	4	271.0	106.3
Colombia	2	125.0	187.0	2	125.0	187.0	2	125.0	157.9	4	238.0	267.1
Denmark	0	0.0	0.0	1	405.0	0.0	1	405.0	0.9	1	450.0	50.0
Dominican Rep.	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2
Dubai	0	0.0	0.0	1	330.0	1,176.0	1	330.0	1,016.4	1	330.0	820.0
Ecuador	2	0.0	11.5	2	0.0	11.5	2	0.0	11.5	2	0.0	11.5
Egypt	4	553.0	1,797.1	7	826.0	928.3	7	969.0	1,122.2	7	1,019.0	1,326.6
France	1	1,024.0	761.0	1	900.0	740.0	1	777.0	666.0	1	570.0	541.0
Germany	5	542.9	0.0	5	542.9	0.0	5	542.9	0.0	5	542.9	0.0
Greece	1	9.8	16.0	2	39.0	83.0	1	10.5	85.0	1	10.5	85.0
Hungary	12	732.7	831.4	12	788.5	911.2	12	855.9	1,068.4	12	947.1	1,065.3
Indonesia	5	587.8	1,005.2	10	933.2	1,639.9	10	884.3	1,446.5	10	884.3	1,542.6
Italy	14	5,560.0	491.9	16	7,101.0	220.0	16	7,101.0	220.0	17	7,249.0	194.1
Kuwait	1	1,680.0	1,772.0	1	1,680.0	1,772.0	1	1,680.0	1,772.0	1	1,680.0	1,772.0
Libya	7	1,851.0	6,165.8	7	1,851.0	1,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8
Malaysia	0	0.0	0.0	1	250.0	1,111.0	2	282.0	406.0	2	282.0	465.0
Mexico	9	3,807.0	10,679.8	9	3,807.0	10,679.8	10	4,334.0	10,017.3	10	4,334.0	10,017.3
Netherlands	1	330.0	6.3	1	440.0	6.0	1	440.0	4.2	1	440.0	5.5
New Zealand	1	96.0	26.5	1	96.0	34.7	1	96.0	34.7	2	248.0	40.0
Norway	0	0.0	0.0	1	350.0	160.0	2	950.0	368.4	2	950.0	1,399.1
Oman	--	--	--	--	--	--	--	--	--	0	0.0	0.0
Pakistan	5	1,215.0	32.2	5	950.0	62.4	5	950.0	62.4	5	950.0	62.4
Peru	3	50.0	44.2	3	70.0	28.1	2	70.0	38.7	2	70.0	38.7
Qatar	2	580.0	696.5	2	578.7	1,777.9	2	580.0	1,096.0	2	560.0	1,028.1
Saudi Arabia	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	1,176.0
Sharjah	1	250.0	1,316.0	1	500.0	2,436.0	1	580.0	2,520.0	2	1,020.0	2,436.2
Spain	--	--	--	--	--	--	--	--	--	0	0.0	0.0
Thailand	--	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	5	2,435.0	2,424.3	5	2,235.0	2,418.1	7	2,648.2	2,627.5	7	2,648.2	2,567.9
Venezuela	14	2,696.0	2,788.6	14	2,696.0	2,788.6	17	4,251.0	2,566.8	17	4,251.0	2,566.8
Yemen	--	--	--	--	--	--	--	--	--	--	--	--
Total (ex. U.S.)	487	60,363.3	60,630.2	551	68,187.9	59,662.6	577	72,630.9	69,534.3	598	74,056.5	69,048.2

See notes and sources at end of table

Section VIII
Table 13a

World Gas Processing Capacities and Average Production(a)

	1988			1989			1990			1991		
Country	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production((000 gal/day
Abu Dhabi	5	1,602.0	546.0	5	1,602.0	546.0	5	1,602.0	546.0	6	1,719.0	546.0
Algeria	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0
Argentina	13	1,344.8	1,794.0	13	1,344.8	1,794.0	14	1,488.4	1,840.3	14	1,488.4	1,840.0
Australia	5	2,573.0	3,619.0	5	2,573.0	3,487.8	5	2,573.0	3,487.8	5	2,333.0	3,487.8
Austria	2	19.7	10.7	1	17.5	55.1	1	17.5	55.1	1	17.5	55.1
Bahrain	1	168.0	367.0	1	168.0	367.0	1	168.0	25.6	1	168.0	25.6
Bangladesh	2	240.0	8.2	2	240.0	8.2	2	240.0	8.2	2	240.0	8.2
Bolivia	2	474.0	364.0	2	474.0	364.0	2	474.0	364.0	2	474.0	364.0
Brazil	10	437.8	1,056.3	10	437.8	1,056.3	11	449.7	874.5	11	452.3	668.1
Brunei	2	1,032.0	304.1	2	1,032.0	311.6	2	1,032.0	311.6	2	1,132.0	272.9
Canada	449	24,656.6	16,683.7	486	25,187.0	19,179.3	512	24,925.8	21,950.9	540	26,444.3	22,026.5
Chile	2	470.0	420.8	2	470.0	416.0	2	470.0	416.0	2	470.0	416.0
China, Taiwan	4	271.0	106.3	4	271.0	108.1	4	270.3	78.2	4	271.0	65.6
Colombia	5	323.1	321.3	5	323.0	321.3	6	348.0	358.6	7	366.4	327.2
Denmark	1	450.0	100.0	1	450.0	100.0	1	450.0	100.0	1	450.0	100.0
Dominican Rep.	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2	0	0.0	0.0
Dubai	1	330.0	772.0	1	330.0	650.5	1	330.0	650.5	1	330.0	650.5
Ecuador	2	41.0	134.4	2	41.0	134.4	2	41.0	134.4	2	41.0	134.4
Egypt	9	1,449.0	1,973.3	8	1,320.0	1,953.0	8	1,320.0	1,850.2	8	1,323.0	1,930.4
France	1	570.0	541.0	1	570.0	541.0	1	570.0	541.0	1	570.0	541.0
Germany	5	399.0	0.0	4	385.0	0.0	3	366.0	0.0	3	366.0	0.0
Greece	1	10.5	86.6	2	39.0	72.0	2	39.0	72.0	2	40.0	110.3
Hungary	12	1,078.1	1,153.8	12	1,078.1	1,153.8	12	1,097.2	1,432.2	12	1,097.2	1,432.2
Indonesia	8	630.5	980.6	10	2,797.5	2,505.9	10	3,900.5	2,020.4	10	3,905.0	1,822.0
Italy	17	7,166.0	63.7	17	7,614.0	18.2	17	7,614.0	18.2	17	7,614.0	18.2
Kuwait	1	560.0	3,513.8	1	1,815.0	3,513.8	1	1,815.0	3,513.8	3	1,815.0	3,513.8
Libya	7	1,851.0	6,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8
Malaysia	2	282.0	465.0	2	282.0	503.2	2	282.0	503.2	2	282.0	503.2
Mexico	10	4,334.0	10,017.3	11	4,649.0	12,714.4	11	4,649.0	12,714.4	11	4,649.0	15,189.2
Netherlands	1	440.0	4.9	1	350.0	1.8	1	350.0	4.2	1	440.0	6.1
New Zealand	3	852.0	48.0	4	1,152.0	879.9	6	1,152.0	927.9	6	1,444.0	927.9
Norway	2	950.0	1,597.0	2	950.0	1,439.0	2	950.0	1,439.0	2	950.0	1,531.0
Oman	8	626.0	245.0	8	626.0	245.0	8	626.0	245.0	8	626.0	245.0
Pakistan	6	1,095.0	49.1	6	430.0	64.0	7	430.0	64.0	6	1,275.0	127.8
Peru	2	70.0	42.9	2	70.0	42.9	2	70.0	42.9	2	70.0	42.9
Qatar	2	579.0	932.2	2	579.0	863.1	2	579.0	863.1	2	579.0	993.0
Saudi Arabia	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	0.0	5	4,300.0	0.0
Sharjah	2	990.0	1,813.1	2	990.0	1,813.0	2	990.0	1,743.0	2	940.0	1,657.0
Spain	3	428.0	94.0	3	428.0	73.0	3	428.0	73.0	3	428.0	73.0
Thailand	--	--	--	2	850.0	492.8	2	850.0	492.8	2	850.0	492.8
United Kingdom	10	4,070.2	2,489.8	8	3,732.0	3,853.3	9	3,732.0	2,573.3	10	7,910.0	2,420.6
Venezuela	14	2,913.0	4,201.9	14	2,913.0	4,201.9	14	2,913.0	4,201.9	14	2,913.0	4,201.9
Yemen	--	--	--	1	400.0	86.0	1	400.0	309.0	1	400.0	359.1
Total (ex. U.S.)	642	75,411.5	70,621.8	682	80,466.9	78,359.0	714	81,488.6	79,371.2	745	88,369.3	81,374.1

(a) Capacities as of January 1, production is for the preceeding 12 months.
(b) Products include ethane, propane, butane, normal or unsplit butane, LP-gas mix, raw NGL mix, debut natural gasoline and other.

SOURCE: Oil and Gas Journal, Annual Gas Processing Report issue.

BASIC PETROLEUM DATA BOOK

SECTION IX. IMPORTS

Table 1. The Share of Imports in U.S. Domestic Petroleum Demand

Table 2. Total U.S. Imports of Petroleum and Petroleum Production

Table 3. U.S. Crude Oil Imports by Area

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Table 10. World Oil Movements

Table 11. Historical U.S. Imports of Crude Oil and Refined Products: 1918-1946

Section IX
Table 1

The Share of Imports in United States Domestic Petroleum Demand
(Thousands of Barrels)

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1947	159,389	1,989,803	8.0%
1948	188,144	2,113,678	8.9%
1949	235,559	2,118,250	11.1%
1950	310,261	2,392,974	13.0%
1951	308,194	2,578,766	12.0%
1952	348,507	2,668,134	13.1%
1953	377,499	2,776,778	13.6%
1954	383,955	2,833,896	13.5%
1955	455,564	3,089,348	14.7%
1956	525,591	3,214,651	16.3%
1957	574,589	3,221,949	17.8%
1958	620,589	3,327,993	18.6%
1959	649,583	3,477,173	18.7%
1960	664,111	3,585,820	18.5%
1961	699,666	3,641,280	19.2%
1962	759,793	3,796,029	20.0%
1963	774,713	3,921,364	19.8%
1964	826,736	4,034,236	20.5%
1965	900,772	4,202,039	21.4%
1966	939,162	4,410,796	21.3%
1967	925,991	4,584,526	20.2%
1968	1,039,369	4,901,789	21.2%
1969	1,155,551	5,159,930	22.4%
1970	1,248,062	5,364,473	23.3%
1971	1,432,880	5,552,560	25.8%
1972	1,735,314	5,990,316	29.0%
1973	2,283,493	6,317,303	36.1%
1974	2,230,947	6,078,239	36.7%
1975	2,210,335	5,957,515	37.1%
1976	2,676,411	6,390,750	41.9%
1977	3,207,106 (a)	6,727,468	47.7%
1978	2,993,847 (a)	6,879,017	43.5%
1979	3,062,053 (a)	6,757,077	45.3%
1980	2,512,636 (a)	6,242,445	40.3%
1981	2,095,122 (a)	5,861,058	35.7%
1982	1,806,165 (a)	5,582,938	32.4%
1983	1,758,457 (a)	5,559,364	31.6%
1984	1,917,897 (a)	5,755,575	33.3%
1985	1,806,304 (a)	5,740,143	31.5%
1986	2,254,019 (a)	5,942,429	37.9%
1987	2,410,842 (a)	6,082,742	39.6%
1988	2,690,362 (a)	6,325,692	42.5%

See notes and sources at end of table

The Share of Imports in United States Domestic Petroleum Demand
(Thousands of Barrels)

Year	Imports		Domestic Demand For Refined Products	Imports as a % of Demand
1989	2,921,751	(a)	6,323,681	46.2%
1990	2,916,623	(a)	6,200,801	47.0%

(a) Excludes crude oil imports into Strategic Petroleum Reserve: 1977- 7,540; 1978- 58,798; 1979- 23,434
1980- 16,067; 1981-93,298; 1982- 60,193; 1983- 85,285; 1984- 72,038
1985- 43,124; 1986- 17,563: 1987- 26,517; 1988- 18,758; 1989- 20,348; 1990-9,772

SOURCE: 1947-1975: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 2

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1947	97,532	(a)	(b)	61,857	159,389	1,856,987	132,173	1,989,160
1948	129,093	(a)	(b)	59,051	188,144	2,020,185	146,721	2,166,906
1949	153,686	(a)	(b)	81,873	235,559	1,841,940	157,086	1,999,026
1950	177,714	(a)	(b)	132,547	310,261	1,973,574	181,961	2,155,535
1951	179,073	(a)	(b)	129,121	308,194	2,247,711	204,754	2,452,465
1952	209,591	(a)	(b)	138,916	348,507	2,289,836	223,515	2,513,351
1953	236,455	(a)	(b)	141,044	377,499	2,357,082	238,579	2,595,661
1954	239,479	(a)	(b)	144,476	383,955	2,314,988	252,133	2,567,121
1955	285,421	(a)	(b)	170,143	455,564	2,484,428	281,371	2,765,799
1956	341,833	(a)	(b)	183,758	525,591	2,617,283	292,727	2,910,010
1957	373,255	(a)	(b)	201,334	574,589	2,616,901	294,990	2,911,891
1958	348,007	(a)	(b)	272,582	620,589	2,448,987	294,749	2,743,736
1959	352,344	23,072	(b)	274,167	649,583	2,574,590	320,757	2,895,347
1960	371,575	16,478	(b)	276,058	664,111	2,574,933	340,157	2,915,090
1961	381,548	25,348	(b)	292,770	699,666	2,621,758	361,689	2,983,447
1962	411,039	32,516	(b)	316,238	759,793	2,676,189	372,705	3,048,894
1963	412,660	31,702	(b)	330,351	774,713	2,752,723	400,886	3,153,609
1964	438,643	32,587	(b)	355,506	826,736	2,786,822	422,471	3,209,293
1965	452,040	33,706	(b)	415,026	900,772	2,848,514	441,556	3,290,070
1966	447,120	35,236	(b)	456,806	939,162	3,027,763	468,635	3,436,398
1967	411,649	35,225	(b)	479,117	925,991	3,215,742	514,456	3,730,198
1968	472,323	29,350	(b)	537,696	1,039,369	3,329,042	550,311	3,879,353
1969	514,114	38,766	(b)	602,671	1,155,551	3,371,751	580,241	3,951,992
1970	483,293	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366
1971	613,417	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729
1972	811,135	45,705	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584
1973	1,183,996	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326
1974	1,269,155	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683
1975	1,498,181	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737
1976	1,935,012	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225
1977	2,406,787	11,239	15,003	774,077	3,207,106	3,009,265	590,455	3,599,720
1978	2,261,028	9,913	6,017	716,889	2,993,847	3,178,216	572,086	3,750,302
1979	2,355,107	21,372	4,749	680,825	3,062,053	3,121,310	578,023	3,699,333
1980	1,910,095	20,015	3,781	598,745	2,532,636	3,146,365	575,787	3,722,152
1981	1,511,405	40,793	3,658	539,265	2,095,121	3,128,624	587,119	3,715,743
1982	1,213,021	63,657	2,292	527,195	1,806,165	3,156,715	565,876	3,722,591
1983	1,129,940	85,580	2,355	540,584	1,758,459	3,170,999	568,926	3,739,925
1984	1,181,911	84,496	(b)	651,491	1,917,898	3,249,696	596,477	3,846,173

See notes and sources at end of table

Section IX
Table 2a

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1985	1,125,173	115,979	(b)	565,231	1,806,363	3,274,553	587,358	3,861,911
Jan.	77,312	4,815	(b)	47,834	129,961	270,926	50,454	321,380
Feb.	56,277	6,446	(b)	44,108	106,831	252,695	45,446	298,141
Mar.	84,875	9,109	(b)	49,388	143,372	281,943	49,602	331,545
Apr.	98,798	12,106	(b)	45,333	156,237	271,299	47,457	318,756
May	108,740	15,788	(b)	47,640	172,168	283,093	49,408	332,501
Jun.	91,009	11,027	(b)	41,206	143,242	270,653	47,909	318,562
Jul.	92,290	11,220	(b)	42,931	146,441	277,410	48,606	326,016
Aug.	92,962	13,142	(b)	36,559	142,663	272,881	49,423	322,304
Sep.	92,523	8,771	(b)	45,696	146,990	268,610	47,252	315,862
Oct.	99,751	8,240	(b)	50,136	158,127	278,068	49,914	327,982
Nov.	118,374	8,552	(b)	54,974	181,900	267,059	49,808	316,867
Dec.	112,260	6,762	(b)	59,428	178,450	279,916	52,079	331,995
1986	1,507,415	91,269	(b)	655,335	2,254,019	3,168,252	566,000	3,734,252
Jan.	106,031	8,464	(b)	56,663	171,158	283,248	53,031	336,279
Feb.	82,434	4,675	(b)	43,166	130,275	256,855	47,495	304,350
Mar.	90,806	7,468	(b)	45,965	144,239	279,413	49,734	329,147
Apr.	108,631	9,034	(b)	43,629	161,294	265,917	45,686	311,603
May	130,653	9,928	(b)	56,712	197,293	273,964	47,827	321,791
Jun.	137,140	7,720	(b)	58,663	203,523	258,700	45,115	303,815
Jul.	144,891	6,956	(b)	61,726	213,573	268,448	46,728	315,176
Aug.	149,064	6,233	(b)	65,340	220,637	259,580	44,784	304,364
Sep.	149,516	7,879	(b)	53,888	211,283	249,843	44,050	293,893
Oct.	135,850	7,138	(b)	55,120	198,108	260,984	45,778	306,762
Nov.	137,090	8,284	(b)	51,025	196,399	252,374	47,083	299,457
Dec.	135,309	7,490	(b)	63,438	206,237	258,926	48,689	307,615
1987	1,679,405	109,298	(b)	622,139	2,410,842	3,047,378	582,291	3,629,669
Jan.	133,081	5,883	(b)	55,122	194,086	262,888	49,055	311,943
Feb.	107,019	8,697	(b)	50,608	166,324	234,880	45,306	280,186
Mar.	114,219	10,797	(b)	51,655	176,671	262,398	49,529	311,927
Apr.	122,266	9,348	(b)	44,023	175,637	254,945	47,688	302,633
May	131,692	8,745	(b)	44,957	185,394	258,426	49,150	307,576
Jun.	142,285	12,906	(b)	45,958	201,149	248,356	47,352	295,708
Jul.	161,764	7,786	(b)	63,302	232,852	255,782	49,037	304,819
Aug.	168,843	8,448	(b)	51,816	229,107	254,508	48,701	303,209
Sep.	151,395	8,179	(b)	53,848	213,422	246,163	47,450	293,613
Oct.	157,629	9,800	(b)	49,903	217,332	259,272	49,670	308,942
Nov.	147,494	6,310	(b)	53,332	209,136	251,915	49,103	301,018
Dec.	141,718	10,399	(b)	57,614	209,731	257,844	50,250	308,094

See notes and sources at end of table

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1988	1,850,247	131,599	(b)	708,536	2,690,382	2,979,123	594,692	3,573,815
Jan.	142,444	12,045	(b)	66,051	220,540	255,743	48,939	304,682
Feb.	133,433	8,508	(b)	67,048	208,989	242,848	46,547	289,395
Mar.	150,210	9,546	(b)	54,816	214,572	259,587	50,725	310,312
Apr.	152,687	12,957	(b)	50,142	215,786	248,629	48,529	297,158
May	164,830	12,634	(b)	53,389	230,853	255,089	50,442	305,531
Jun.	157,560	12,327	(b)	45,173	215,060	245,102	48,477	293,579
Jul.	156,810	12,454	(b)	55,650	224,914	249,229	50,156	299,385
Aug.	156,970	10,138	(b)	61,053	228,161	250,459	50,096	300,555
Sep.	153,849	9,363	(b)	59,451	222,663	236,847	48,630	285,477
Oct.	170,737	10,253	(b)	60,395	241,385	248,704	51,496	300,200
Nov.	149,425	13,187	(b)	66,145	228,757	240,700	49,881	290,581
Dec.	161,292	8,187	(b)	69,222	238,701	246,189	50,662	296,851
1989	2,112,413	126,903	(b)	682,435	2,921,751	2,778,773	564,125	3,342,898
Jan.	173,487	10,689	(b)	69,718	253,894	246,056	51,597	297,653
Feb.	146,174	11,228	(b)	65,115	222,517	218,076	44,995	263,071
Mar.	153,767	8,849	(b)	66,191	228,807	234,822	51,152	285,974
Apr.	170,712	12,917	(b)	56,922	240,551	233,147	50,221	283,368
May	175,210	11,420	(b)	52,090	238,720	242,303	50,219	292,522
Jun.	177,611	10,985	(b)	49,064	237,660	228,731	45,207	273,938
Jul.	190,301	10,780	(b)	56,031	257,112	230,766	47,786	278,552
Aug.	202,529	11,013	(b)	50,830	264,372	233,878	46,612	280,490
Sep.	179,078	11,783	(b)	47,453	238,314	226,436	44,410	270,846
Oct.	190,630	10,741	(b)	54,820	256,191	231,036	45,816	276,852
Nov.	183,917	9,779	(b)	55,319	249,015	226,082	44,485	270,567
Dec.	168,997	6,719	(b)	58,882	234,598	227,439	41,625	269,064
1990	2,141,615	150,828	(b)	624,180	2,916,623	2,684,687	568,999	3,253,686
Jan.	191,830	13,657	(b)	78,146	283,633	233,931	47,773	281,704
Feb.	164,717	11,219	(b)	58,584	234,520	209,923	43,966	253,889
Mar.	188,271	12,059	(b)	43,865	244,195	230,434	47,318	277,752
Apr.	173,254	10,845	(b)	49,353	233,452	222,215	44,777	266,992
May	197,304	13,148	(b)	57,875	268,327	227,179	46,573	273,752
Jun.	192,205	13,546	(b)	56,156	261,907	213,175	43,741	256,916
Jul.	212,514	10,936	(b)	57,047	280,496	222,371	46,011	268,382
Aug.	197,504	11,700	(b)	53,313	262,517	225,886	48,816	274,702
Sep.	169,907	11,763	(b)	39,170	220,840	216,715	47,908	264,623
Oct.	159,080	12,943	(b)	36,196	208,219	233,799	51,691	285,490
Nov.	152,549	16,759	(b)	40,775	210,083	221,598	50,709	272,307
Dec.	142,930	12,254	(b)	44,427	199,611	227,463	49,716	277,179

See notes and sources at end of table

Section IX
Table 2c

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

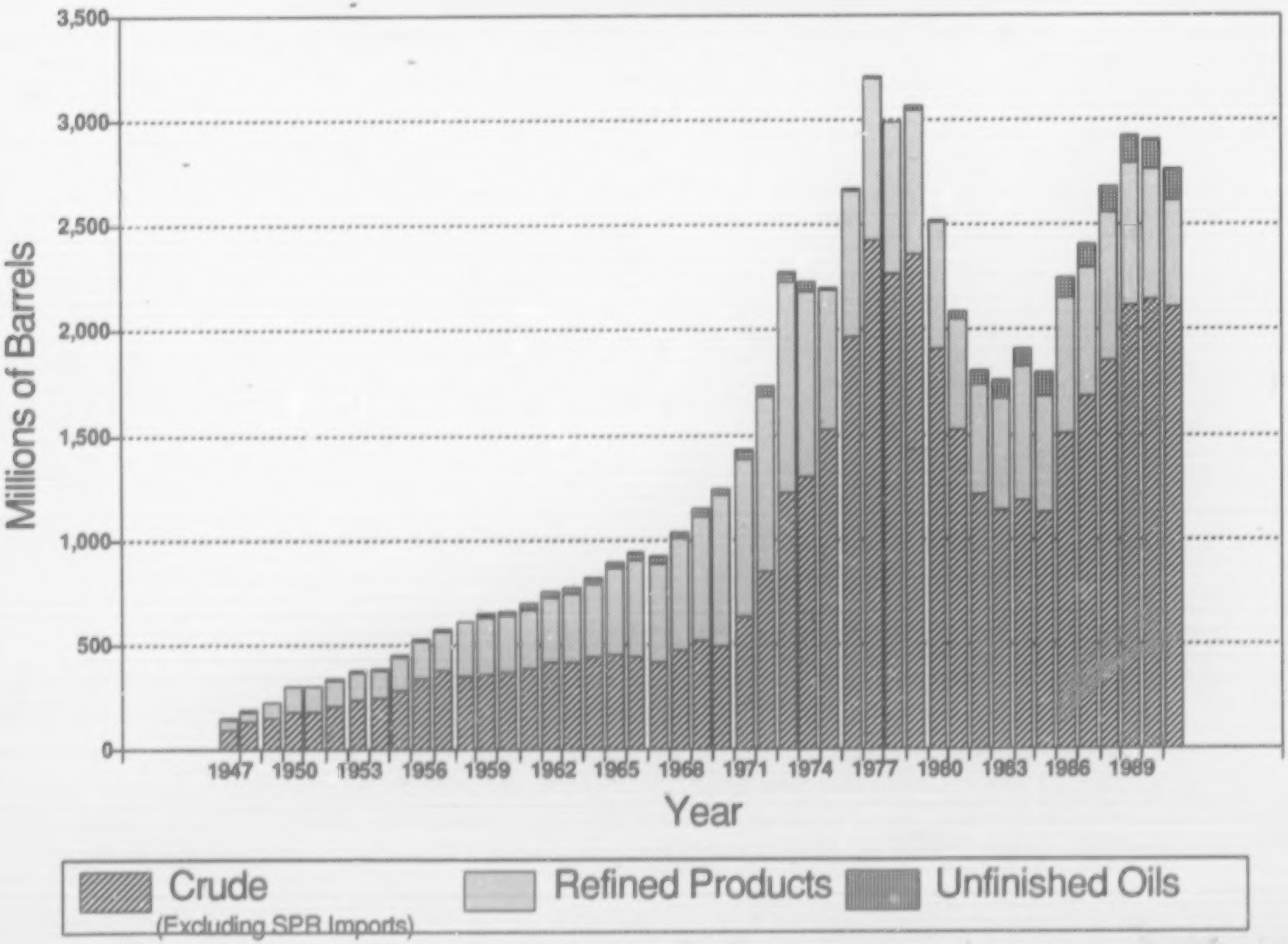
	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1991(p)	2,110,449	147,920	(b)	506,807	2,765,176	2,691,251	602,632	3,293,883
Jan.	164,391	13,980	(b)	40,685	219,056	229,965	50,670	280,635
Feb.	153,955	8,612	(b)	29,070	191,637	211,353	47,310	258,663
Mar.	159,000	8,681	(b)	35,375	203,056	231,924	51,785	283,709
Apr.	165,689	10,268	(b)	45,257	221,214	224,016	49,686	273,702
May	197,988	17,199	(b)	48,190	263,377	228,414	51,059	279,473
Jun.	189,517	8,551	(b)	47,244	245,312	218,463	48,479	266,942
Jul	184,427	15,971	(b)	38,744	239,142	227,093	49,847	276,940
Aug.	206,675	12,489	(b)	48,125	267,289	225,437	50,135	275,572
Sep.	173,839	15,976	(b)	42,531	232,346	219,974	48,267	268,241
Oct.	176,182	12,795	(b)	40,284	229,261	229,688	51,855	281,543
Nov.	166,326	15,713	(b)	44,741	226,780	219,202	51,177	270,379
Dec.	172,460	9,410	(b)	44,836	226,706	225,722	52,362	278,084

(a) Separate data not available prior to 1959
(b) Separate data available for 1970 to 1983 only.
(c) Excludes crude oil imported into the Strategic Petroleum Reserve.
(d) Excludes unfinished oils and plant condensate.
(p) Preliminary

SOURCE: 1947-1964: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues
1965-1980: U.S. Energy Informaton Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies.

Section IX
Table 2d

U.S. PETROLEUM IMPORTS



Source: US Bureau of Mines, US Department of Energy

Section IX
Table 3

United States Crude Oil Imports by Area
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1947	97,146	--	386	–	97,532
1948	105,912	--	23,181	–	129,093
1949	116,736	--	36,950	–	153,686
1950	136,096	--	41,618	–	177,714
1951	138,074	--	37,501	3,498	179,073
1952	147,771	--	56,556	5,264	209,591
1953	141,552	--	80,934	13,969	236,455
1954	148,010	--	77,764	13,705	239,479
1955	173,136	--	100,344	11,941	285,421
1956	225,007	--	103,517	13,309	341,833
1957	261,736	--	87,798	23,719	373,253
1958	199,256	--	123,019	25,732	348,007
1959	212,707	--	115,875	23,762	352,344
1960	230,229	1,451	113,175	26,720	371,575
1961	237,995	1,887	118,997	22,669	381,548
1962	267,680	9,808	109,071	24,480	411,039
1963	278,933	9,173	103,214	21,340	412,660
1964	289,012	17,743	108,841	23,047	438,643
1965	283,377	24,585	121,908	22,170	452,040
1966	289,800	31,543	107,579	18,198	447,120
1967	301,002	20,151	67,977	22,519	411,649
1968	315,977	57,461	72,330	26,555	472,323
1969	337,847	82,380	61,616	32,271	514,114
1970	351,366	44,365	61,892	25,670	483,293
1971	378,102	68,361	124,155	42,799	613,417
1972	421,799	172,105	155,982	61,249	811,135
1973	532,238	285,481	292,988	73,289	1,183,996
1974	446,534	356,121	362,186	104,314	1,269,155
1975	453,772	488,515	409,496	146,398	1,498,181
1976	316,202	716,661	681,184	220,965	1,935,012
1977	328,468	912,631	910,744	262,484	2,414,327
1978	345,624	830,773	832,305	311,124	2,319,826
1979	435,817	911,352	765,249	267,123	2,379,541
1980	379,813	731,342	561,248	253,759	1,926,162
1981	352,373	486,768	447,518	318,044	1,604,703
1982	430,955	282,706	248,560	310,993	1,273,214
1983	497,237	247,555	160,221	310,213	1,215,225
1984	508,983	225,929	168,336	350,701	1,253,949
1985	605,771	213,090	89,583	259,853	1,168,297
1986	670,239	266,946	300,207	287,586	1,524,978
1987	699,301	363,829	359,628	283,164	1,705,922
1988	737,577	370,000	512,685	248,743	1,869,005
1989	781,794	469,676	643,217	238,074	2,132,761
1990	826,727	451,171	678,056	195,433	2,151,387

SOURCE: 1947-1974: U.S. Bureau of Mines, Crude Petroleum, Petroleum products and Natural Gas Liquids, Annual and December issues.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 4

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Bolivia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	--	463	1,116	2,527	2,565	16,810	42,739	55,131	30,426	33,730	41,349	66,614	85,152
Colombia	10,944	8,542	11,678	16,159	16,312	16,209	15,860	12,415	8,125	9,009	8,366	9,411	12,437	14,799	10,050	8,614
Ecuador	--	--	--	--	--	--	90	300	474	368	933	--	--	--	--	--
Mexico	5,578	3,601	4,797	12,307	13,862	8,483	2,897	3,018	5,510	4,666	2,441	672	112	925	3,655	3,644
Trinidad	--	--	--	--	--	--	--	356	121	566	1,111	120	--	269	152	--
Venezuela	75,499	89,062	99,648	107,019	107,437	121,963	120,178	128,377	140,754	167,050	193,756	158,167	165,883	172,887	155,751	168,993
Total Western Hemisphere	97,146	105,912	116,736	136,096	138,074	147,771	141,552	148,010	173,136	225,007	261,738	199,256	212,707	230,229	237,995	267,680
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Europe	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	284	--	1,543
Angola	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Congo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--	--	--	1,167	1,887	1,543
Gabon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,722
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tunisia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zaire																
Total Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	1,451	1,887	9,808
Iran	--	4,507	1,107	111	--	--	--	204	3,202	7,257	6,624	5,348	8,961	13,056	21,970	17,735
Iraq	--	766	341	--	--	705	2,287	2,188	6,988	9,650	4,477	8,972	7,667	6,363	7,362	856
Kuwait	111	3,442	23,445	26,741	21,601	26,444	38,611	41,046	48,954	50,953	51,389	68,098	59,169	47,512	44,311	40,749
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	116	--	--	3,368	3,524	5,511	4,915	2,247	1,513	231	1,649	3,575	9,535
Saudi Arabia	275	14,466	12,057	14,650	15,900	29,407	36,668	27,819	29,050	27,670	21,011	27,081	24,756	28,232	22,501	24,359
United Arab Emirates(b)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Middle East	386	23,181	36,950	41,618	37,501	56,556	80,934	77,764	100,344	103,517	87,798	123,019	115,875	113,175	118,997	109,071
Australia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Borneo	--	--	--	--	3,498	1,624	--	--	--	--	--	4,679	3,739	--	--	--
Indonesia	--	--	--	--	--	3,640	13,969	13,705	11,941	13,309	24,226	21,053	20,023	26,720	22,669	24,480
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Far East	--	--	--	--	3,498	5,264	13,969	13,705	11,941	13,309	23,719	25,732	23,762	26,720	22,669	24,480
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	386	23,181	36,950	41,618	40,999	61,820	94,903	91,469	112,285	116,826	111,517	148,751	139,637	141,346	143,553	143,359
ANNUAL TOTAL(a)	97,532	129,093	153,686	177,714	179,073	209,591	236,455	239,479	285,421	341,833	373,255	348,007	352,344	371,575	381,548	411,039

See notes and sources at end of table

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Bolivia	--	--	--	1,237	7,016	6,866	5,596	534	798	--	891	2,467	1,940	1,849	1,271	308
Canada	90,394	101,607	107,762	126,712	150,409	169,418	203,298	245,258	263,294	312,440	365,370	288,763	219,175	135,690	101,778	90,490
Colombia	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175	1,695	778	--	--	2,041	--	--
Ecuador	--	--	--	--	--	--	--	--	--	5,331	17,229	15,225	20,679	18,671	20,229	13,910
Mexico	3,657	3,577	2,552	--	--	--	--	--	--	--	489	597	25,660	31,670	64,711	115,426
Trinidad	--	--	--	--	--	--	--	265	--	8,626	21,739	23,045	42,097	38,142	48,841	51,974
Venezuela	174,537	174,222	157,852	147,427	131,089	125,737	111,722	97,996	110,574	93,300	125,742	116,437	144,221	88,139	91,331	66,125
Total Western Hemisphere	278,933	289,012	283,377	289,800	301,002	315,977	337,847	351,366	378,102	421,799	532,238	446,534	453,772	316,202	328,468	345,624
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	125	4,923	35,583	61,555
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	1,500	--	1,509	846
Norway	--	--	--	--	--	--	--	--	--	--	--	322	4,552	12,881	17,628	37,815
Total Europe	--	--	--	--	--	--	--	--	--	--	--	322	6,177	17,804	54,720	100,216
Algeria	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685	31,753	43,619	65,764	96,459	149,190	198,468	231,253
Angola	--	--	--	--	--	--	424	--	1,301	5,785	17,753	17,536	26,051	2,426	6,150	2,290
Congo	--	--	--	--	--	--	--	--	--	--	--	670	--	3,142	2,440	5,454
Egypt	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924	3,091	5,296	3,227	1,687	6,311	13,034	7,395
Gabon	--	--	--	--	661	--	--	--	--	--	--	8,552	9,811	9,685	12,632	13,841
Libya	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426	40,069	48,585	1,495	81,403	162,457	256,984	232,897
Nigeria	--	--	5,296	4,114	1,432	3,131	17,958	17,490	34,826	88,887	163,687	254,358	272,265	370,962	412,498	332,035
Tunisia	--	--	--	--	--	--	--	--	1,199	2,520	6,541	4,519	839	5,400	10,425	4,460
Zaire					--	--	--	--	--	--	--	--	--	7,088	--	263
Total Africa	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361	172,105	285,481	356,121	488,515	716,661	912,631	830,773
Iran	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576	49,700	78,990	168,956	101,575	109,073	193,415	202,357
Iraq	321	--	5,695	9,447	1,716	--	--	--	3,932	1,315	1,529	--	707	9,542	26,894	22,673
Kuwait	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650	13,205	15,208	1,820	1,444	451	15,434	1,718
Oman	--	--	--	--	--	--	--	--	--	--	--	236	492	10,943	27,140	22,240
Qatar	5,835	7,294	4,346	176	--	--	191	--	--	1,263	2,663	6,189	6,657	8,631	24,281	23,224
Saudi Arabia	28,806	35,464	48,235	45,771	29,679	18,959	12,665	6,140	41,971	63,626	168,525	159,827	256,036	447,071	501,072	416,910
United Arab Emirates(b)	--	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026	26,873	25,764	25,158	42,585	93,105	121,640	140,653
Total Middle East	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155	155,982	292,988	362,186	409,496	681,184	910,744	832,305
Australia	--	--	--	--	--	--	--	--	2,567	327	--	--	--	--	--	--
Borneo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232	59,633	73,055	103,482	138,270	196,599	184,984	194,620
Malaysia	--	--	--	--	--	--	--	--	--	966	234	510	1,951	5,914	20,257	13,677
Total Far East	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799	60,926	73,289	103,992	140,221	202,513	207,089	210,632
U.S.S.R.	--	--	--	--	--	--	--	--	--	323	--	--	--	648	675	276
Total Eastern Hemisphere	133,727	149,631	168,663	157,320	110,647	156,346	176,267	131,927	235,315	389,336	651,758	822,621	1,044,409	1,618,810	2,085,859	1,974,202
ANNUAL TOTAL(a)	412,660	438,643	452,040	447,120	411,649	472,323	514,114	483,293	613,417	811,135	1,183,996	1,269,155	1,498,181	1,935,012	2,414,327	2,319,826

See notes and sources at end of table

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 (c)	1990
Bolivia	328	301	--	--	1,361	260	--	268	--	--	--	--
Canada	99,081	73,002	59,904	78,041	100,142	124,687	170,800	208,163	221,981	249,077	230,043	234,516
Colombia	--	--	--	--	--	--	--	20,715	41,809	38,640	49,615	51,041
Ecuador	11,010	6,129	13,967	11,788	20,594	17,066	20,334	23,408	8,217	12,240	29,208	13,886
Mexico	158,908	185,541	171,363	235,298	279,703	241,054	261,019	226,533	219,552	246,545	261,244	251,345
Trinidad	44,950	42,011	37,186	33,541	30,207	31,939	35,595	34,060	27,408	26,119	26,815	27,803
Venezuela	106,794	56,950	53,590	56,434	59,854	92,728	111,627	151,937	178,163	160,747	180,598	242,910
Total Western Hemisphere	435,817	379,813	352,373	430,955	497,237	508,983	605,771	670,239	699,301	737,577	781,794	826,727
United Kingdom	71,923	63,459	134,766	161,061	133,142	138,246	101,552	115,659	111,060	92,910	58,246	56,497
Netherlands	2,685	22	1	3	1,039	1,046	--	--	--	--	--	--
Norway	27,523	52,727	41,542	37,299	23,836	40,927	11,311	19,403	25,395	22,570	46,390	34,878
Total Europe	102,316	116,208	176,315	198,371	193,529	180,219	113,096	135,062	136,665	117,363	105,699	92,044
Algeria	222,042	166,980	95,165	32,714	64,274	71,074	30,524	28,423	41,932	21,123	21,841	23,035
Angola	14,088	13,389	16,528	15,248	25,763	31,172	37,889	37,076	65,657	74,325	101,943	86,095
Congo	909	2,658	1,276	456	6,616	12,226	5,962	7,188	5,960	10,747	3,997	1,387
Egypt	20,205	11,249	12,155	14,683	8,958	3,485	956	3,620	19,884	9,560	5,515	9,005
Gabon	15,328	9,062	12,633	14,429	21,415	20,838	18,797	8,959	12,655	5,664	17,774	23,349
Libya	234,173	200,406	115,572	8,452	--	--	--	--	--	--	--	--
Nigeria	390,116	307,840	222,981	186,329	109,807	75,669	102,134	159,683	193,004	222,094	292,165	286,126
Tunisia	6,429	2,801	4,104	3,481	2,564	4	4,259	1,230	--	--	1,767	645
Zaire	1,379	4,690	5,977	6,914	8,158	11,460	12,569	9,490	8,128	11,470	9,493	8,468
Total Africa	911,352	731,342	486,768	282,706	247,555	225,929	213,090	266,946	363,829	370,000	469,676	451,171
Iran	108,269	3,086	--	12,854	17,575	3,706	9,919	7,078	35,942	25	--	--
Iraq	32,052	10,328	--	974	3,758	4,554	16,889	29,401	29,842	125,515	161,017	187,485
Kuwait	1,898	9,712	--	904	2,641	8,780	1,316	10,106	25,630	29,381	56,536	28,942
Oman	13,466	8,693	8,702	8,183	12,281	3,755	655	2,897	12,831	2,439	6,671	13,037
Qatar	11,450	7,920	2,665	2,600	--	1,497	--	4,365	--	--	767	1,293
Saudi Arabia	491,514	457,671	406,059	193,536	117,325	113,078	48,044	225,627	234,213	330,194	407,236	436,193
United Arab Emirates(b)	102,709	63,052	27,950	29,509	6,641	32,966	12,760	13,806	20,602	8,270	7,513	3,300
Total Middle East	765,249	561,248	447,518	248,560	160,221	168,336	89,583	300,207	359,628	512,685	643,217	678,056
Australia	--	--	--	1	--	9,177	7,557	10,973	17,952	21,669	11,237	17,307
Borneo	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	138,528	114,990	116,126	82,315	115,156	111,404	106,654	108,376	95,775	68,127	57,636	35,912
Malaysia	18,954	22,213	12,143	6,574	930	--	301	3,883	4,464	6,868	14,079	14,749
Total Far East	164,807	137,551	128,269	92,848	116,683	126,196	127,539	152,522	146,499	131,380	121,627	103,092
U.S.S.R.	--	--	--	--	--	--	--	2	--	--	--	297
Total Eastern Hemisphere	1,943,724	1,546,349	1,252,332	842,263	717,988	744,966	562,526	854,739	1,006,621	1,131,428	1,340,219	1,324,660
ANNUAL TOTAL(a)	2,379,541	1,926,162	1,604,703	1,273,214	1,215,225	1,253,949	1,168,297	1,524,978	1,705,922	1,869,005	2,132,761	2,151,387

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

(a) Totals reflect countries not individually listed.
(b) Figures from 1947-1971 reflect Abu Dhabi only. Beginning in 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates.
(c) Total also reflects an amount with country of origin not identified.

SOURCE: 1947-1975: U.S. Bureau of Mines, December and Annual Petroleum Statements
1976-1980: Energy Information Administration, Annual Petroleum Statements.
1981-1990: Energy Information Administration, Petroleum Supply Annual.

Section IX
Table 5

United States Imports of Crude Oil by P.A.D. Districts
(Thousands of Barrels)

Year	P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil
1952 (a)	192,349	1,116	4,423	--	11,703	209,591
1953	202,611	2,562	2,871	--	28,411	236,455
1954	213,413	2,772	4,553	--	18,741	239,479
1955	232,850	7,425	11,098	--	34,048	285,421
1956	244,453	19,904	11,917	70	65,489	341,833
1957	247,395	22,296	8,729	86	94,749	373,255
1958	238,769	25,328	16,242	13	67,655	348,007
1959	235,259	21,279	10,184	15	85,607	352,344
1960	244,196	23,265	2,939	20	101,155	371,575
1961	236,905	30,971	2,354	30	111,288	381,548
1962	244,235	34,646	2,489	682	128,987	411,039
1963	248,199	34,666	1,698	3,528	124,569	412,660
1964	252,527	37,801	1,835	4,409	142,071	438,643
1965	258,361	41,264	--	4,807	147,608	452,040
1966	259,499	48,114	449	4,954	134,104	447,120
1967	216,920	56,408	672	6,648	131,001	411,649
1968	263,866	78,365	641	10,058	119,393	472,323
1969	269,007	88,434	--	12,714	143,959	514,114
1970	211,403	115,613	--	17,573	138,704	483,293
1971	252,088	137,064	20,449	16,869	186,947	613,417
1972	354,549	171,338	28,331	14,126	242,791	811,135
1973	466,074	260,368	145,654	16,132	295,768	1,183,996
1974	428,608	250,771	289,999	16,579	283,198	1,269,155
1975	451,549	282,658	437,049	16,090	310,835	1,498,181
1976	517,840	366,107	651,381	19,878	379,806	1,935,012
1977 (b)	553,955	516,775	927,596	15,957	400,044	2,414,327
1978 (b)	542,856	494,132	1,045,691	18,132	219,015	2,319,826
1979 (b)	522,580	556,861	1,083,749	23,656	192,695	2,379,541
1980 (b)	491,292	409,533	854,233	14,268	156,836	1,926,162
1981 (b)	407,384	248,393	828,287	10,513	110,126	1,604,703
1982 (b)	349,583	211,727	628,591	14,625	68,687	1,273,214
1983 (b)	298,070	193,427	632,974	13,959	76,794	1,215,225
1984 (b)	345,642	182,565	639,238	12,233	74,271	1,253,949
1985 (b)	356,697	215,179	517,861	14,056	64,505	1,168,297
1986 (b)	394,490	286,276	756,465	19,613	68,134	1,524,978
1987 (b)	405,596	317,384	887,454	23,563	71,925	1,705,922
1988 (b)	429,968	346,950	994,989	23,456	73,642	1,869,005
1989 (b)	438,409	389,443	1,181,311	26,189	97,409	2,132,761
1990 (b)	441,265	409,783	1,188,027	27,702	84,610	2,151,387

(a) Figures not available by P.A.D.D. prior to 1952.
(b) Figures include crude oil imported into the Strategic Petroleum Reserve.

SOURCE: 1952-1972: U.S. Bureau of Mines, Minerals Yearbook
1973-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals

Section IX
Table 6

United States Imports of Residual and Distillate Fuel by P.A.D. Districts (Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil
1950	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	120,036	2,602
1951	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	119,166	1,767
1952	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	128,479	2,742
1953	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	131,533	3,379
1954	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	129,124	3,195
1955	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	152,035	4,413
1956	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	162,869	5,159
1957	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	173,229	8,566
1958	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	182,306	14,892
1959 (b)	219,341	17,283	230	13	2,981	360	1	2	18	0	222,571	17,658
1960	211,788	11,365	59	12	14,416	1,298	0	96	6,945	0	233,208	12,771
1961	214,453	15,533	284	24	12,320	1,654	1	142	16,210	24	243,268	17,377
1962	237,565	9,811	610	31	11,775	1,892	47	92	14,317	5	264,314	11,831
1963	252,785	7,787	800	63	12,327	1,250	26	1	6,815	9	272,753	9,110
1964	274,306	10,559	804	64	11,204	1,119	45	0	9,412	43	295,771	11,785
1965	318,634	11,041	1,188	17	14,598	1,811	43	0	10,724	133	345,187	13,002
1966	357,907	12,548	860	107	11,708	967	55	0	6,265	223	376,795	13,845
1967	383,260	16,851	587	224	7,475	891	60	0	4,557	526	395,939	18,492
1968	394,528	45,502	573	360	8,271	1,290	54	0	6,502	996	409,928	48,148
1969	440,983	47,720	627	1,264	12,167	937	78	0	7,756	962	461,611	50,883
1970	536,968	49,333	4,207	2,223	11,029	1,192	52	0	5,589	1,078	557,845	53,826
1971	558,771	53,373	3,953	258	6,553	1,079	41	0	8,382	1,073	577,700	55,783
1972	616,990	64,302	5,458	473	6,212	1,191	0	0	8,741	483	637,401	66,449
1973	639,611	125,210	6,068	1,353	10,471	12,406	0	104	20,075	4,076	676,225	143,149
1974	538,573	95,018	7,919	621	11,806	6,766	--	32	20,859	3,142	579,157	105,579
1975	416,105	54,300	14,015	223	3,957	1,441	--	1	12,451	713	446,528	56,678
1976	495,980	49,225	11,720	97	1,728	680	--	--	7,897	3,518	517,325	53,520
1977	467,124	88,177	11,754	55	818	413	--	--	16,369	2,673	496,065	91,318
1978	468,937	59,023	17,101	306	939	210	--	--	7,663	3,749	494,640	63,288
1979	392,861	64,091	14,267	70	2,044	1,568	--	4	10,972	4,756	420,144	70,489
1980	317,157	48,518	10,754	--	6,485	1,268	--	--	9,161	2,122	343,557	51,908
1981	260,156	59,180	8,592	5	14,055	2,634	--	2	9,266	1,251	292,069	63,072
1982	235,912	29,763	3,966	392	35,700	1,526	9	4	7,514	2,355	283,101	34,040
1983	222,276	56,129	5,375	3,075	19,555	2,189	193	488	7,814	1,660	255,213	63,541
1984	218,730	91,885	2,069	2,999	23,488	1,029	158	1,300	4,766	2,227	249,211	99,440
1985	163,779	64,576	907	2,652	16,579	855	131	1,363	4,888	3,643	186,284	73,089
1986	221,943	82,414	1,394	2,857	13,372	864	50	966	7,394	3,195	244,153	90,296
1987	192,337	84,822	1,316	3,394	9,702	2,855	10	804	2,773	1,301	206,138	93,176
1988	212,374	104,576	1,873	2,090	8,554	913	7	1,352	13,052	1,423	235,860	110,354
1989	211,024	104,991	1,614	2,783	6,243	1,142	6	760	10,708	1,998	229,595	111,674
1990	162,744	96,227	906	2,254	10,580	630	99	761	9,512	1,583	183,841	101,455

(a) Figures not available by P.A.D. prior to 1959.

(b) Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands.

SOURCE: 1950-1972: U.S. Bureau of Mines, Minerals Yearbook
1973-1974: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products, and Natural Gas Liquids; Annual and December issues.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

United States Imports of Unfinished Oils and Refined Products by P.A.D. Districts(a)
(Thousands of Barrels)

Year	P.A.D.D. I Unfinished Oils	P.A.D.D. I Refined Products	P.A.D.D. II Unfinished Oils	P.A.D.D. II Refined Products	P.A.D.D. III Unfinished Oils	P.A.D.D. III Refined Products	P.A.D.D. IV Unfinished Oils	P.A.D.D. IV Refined Products	P.A.D.D. V Unfinished Oils	P.A.D.D. V Refined Products	Totals Unfinished Oils	Totals Refined Products
1959 (b)	16,628	264,347	587	606	2,148	4,861	--	31	3,709	4,322	23,072	274,167
1960	9,534	248,388	520	1,019	994	16,788	--	121	5,430	9,742	16,478	276,058
1961	18,045	256,484	1,184	1,324	145	15,258	--	180	5,974	19,524	25,348	292,770
1962	22,297	279,475	360	1,746	1,616	15,101	--	154	8,243	19,762	32,516	316,238
1963	21,779	299,530	476	2,193	2,102	14,952	--	39	7,345	13,637	31,702	330,351
1964	21,151	321,994	478	3,552	1,011	13,117	--	159	9,947	16,684	32,587	355,506
1965	23,260	369,760	213	5,739	377	18,073	--	727	9,856	20,727	33,706	415,026
1966	26,743	410,435	43	7,276	15	13,826	--	971	8,435	24,298	35,236	456,806
1967	23,222	434,265	20	7,171	276	9,873	--	879	11,707	26,929	35,225	479,117
1968	21,987	489,628	1	7,573	109	10,618	--	2,253	7,253	27,624	29,350	537,696
1969	28,975	543,947	51	8,245	1,034	15,087	--	2,979	8,706	32,413	38,766	602,671
1970	30,221	651,123 (c)	--	20,022 (c)	913	21,191	--	3,192 (c)	8,127	29,980 (c)	39,261	725,508 (c)
1971	30,651	685,309 (c)	--	22,918 (c)	2,217	17,425	--	7,786 (c)	12,325	43,832 (c)	45,193	777,270 (c)
1972	30,715	761,491 (c)	--	39,798 (c)	1,548	16,474	--	16,623 (c)	13,442	44,088 (c)	45,705	878,474 (c)
1973	26,216	874,707 (c)	739	53,985 (c)	10,681	45,714	--	16,285 (c)	12,525	58,645 (c)	50,161	1,049,336
1974	14,084	757,416 (c)	1,155	49,860 (c)	19,208	43,356 (c)	--	14,143 (c)	9,781	52,789 (c)	44,228	917,564 (c)
1975	6,038	578,739 (c)	392	49,345 (c)	4,170	15,989 (c)	--	12,327 (c)	2,385	42,769 (c)	12,985	699,169 (c)
1976	7,721	619,068	16	34,334	3,750	13,382	--	5,888 (c)	248	32,584	11,735	705,256
1977	9,333	665,984	15	43,912	905	17,422	--	5,922	986	40,659	11,239	773,899
1978	9,022	614,132	15	45,676	226	8,427	--	4,635	650	43,998	9,913	716,868
1979	7,945	545,758	338	68,663	7,687	21,135	--	4,737	5,402	40,532	21,372	680,825
1980	11,489	446,336	217	68,505	5,855	25,986	--	5,222	2,454	32,696	20,015	578,745
1981	18,096	392,310	396	69,554	19,442	39,355	--	7,877	2,858	33,827	40,792	542,923
1982	23,182	355,073	2,708	65,611	35,027	63,820	--	7,141	2,741	37,842	63,657	529,487
1983	32,030	390,381	4,120	62,081	47,060	50,025	604	6,981	1,765	33,471	85,580	542,938
1984	19,936	472,223	3,821	61,098	55,977	73,631	--	8,856	4,762	35,683	84,496	651,490
1985	23,527	399,657	2,985	54,284	88,611	60,507	--	9,190	856	41,593	115,979	565,231
1986	31,039	470,274	--	39,589	58,100	92,858	--	7,666	2,130	44,948	91,269	655,335
1987	41,514	471,083	207	38,783	65,943	75,854	--	6,801	1,634	29,618	109,298	622,139
1988	44,892	526,006	1,105	45,721	82,730	93,474	--	6,805	2,872	36,530	131,599	708,536
1989	44,998	512,431	--	43,189	79,453	95,467	22	4,650	2,430	26,698	126,903	682,435
1990	45,029	450,976	--	37,184	103,906	106,321	5	4,892	1,888	24,807	150,828	624,180

(a) Figures include receipts from Puerto Rico and Virgin Islands.
(b) Figures not available by P.A.D. district prior to 1959.
(c) Includes plant condensate.

SOURCE: 1959-1972: U.S. Department of Interior, Mineral Yearbooks
1973-1980: Department of Energy, Annual Petroleum Statements
1981-1990: Department of Energy, Petroleum Supply Annual

Section IX
Table 8

Total United States Petroleum Imports by Source
(Thousands of Barrels Per Day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Western Hemisphere																	
Bahamas	--	--	--	--	--	--	--	--	--	--	--	1	--	32	150	174	174
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608	767	857	1,108	1,325
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69	45	27	16	9
Ecuador	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41	42	27	21	16
Neth. Antilles	273	338	324	300	264	297	312	333	361	332	361	392	450	442	429	424	585
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72	87	95	102	99
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215	217	182	226	255
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876	983	1,019	960	1,135
Virgin Islands	--	--	--	--	--	--	--	--	--	--	36	78	116	189	273	303	329
Other	5	11	8	2	10	9	21	10	11	21	41	46	34	52	18	61	28
Total	1,265	1,267	1,356	1,399	1,493	1,660	1,726	1,815	1,967	2,066	2,145	2,264	2,481	2,856	3,077	3,395	4,003
Eastern Hemisphere																	
Abu Dhabi/United Arab Emirates(a)	--	--	--	--	--	--	--	3	14	13	5	16	14	63	80	73	71
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	8	15	92	135
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89	70	111	164	213
Italy	--	8	4	1	--	--	--	1	2	18	28	49	75	83	79	83	125
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46	38	112	142	223
Iraq	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	4	4
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39	36	36	45	47
Libya	--	--	--	--	--	19	19	39	41	69	42	114	135	47	57	123	164
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	1	12
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	12	53
Nigeria	--	--	--	--	--	--	--	--	15	11	5	8	49	50	103	251	459
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	2	1
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	N.A.	N.A.
Qatar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	7
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42	42	127	190	486
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	10	9
Other	25	81	83	81	103	94	82	93	85	91	70	140	196	134	143	152	244
Total	309	433	424	416	424	422	397	443	501	507	392	576	685	563	848	1,347	2,253
Total U.S. Imports(b)	1,574	1,700	1,780	1,815	1,917	2,082	2,123	2,258	2,468	2,573	2,537	2,840	3,166	3,419	3,925	4,742	6,256

See notes and sources at end of table

Section IX
Table 8a

Total United States Petroleum Imports by Source
(Thousands of Barrels Per Day)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Western Hemisphere																	
Bahamas	164	152	118	167	160	147	76	74	65	125	88	40	37	37	32	34	37
Canada	1,070	846	599	516	467	538	455	447	482	547	630	770	807	848	999	931	934
Colombia	5	9	21	17	20	18	4	--	--	--	--	--	87	148	134	172	182
Ecuador	42	57	51	55	54	42	27	48	42	61	55	67	77	29	47	89	49
Mexico	8	71	87	179	318	439	533	522	685	826	748	816	699	655	747	767	755
Neth. Antilles	511	332	275	214	229	231	225	197	175	189	188	40	25	29	36	42	31
Puerto Rico	90	90	88	105	94	92	88	62	50	40	42	28	21	21	22	32	32
Trinidad	251	242	274	286	253	190	176	133	112	96	94	113	125	106	97	94	96
Venezuela	979	702	700	687	646	690	481	406	412	422	548	605	793	804	794	873	1,025
Virgin Islands	391	406	422	466	428	431	388	327	316	282	294	247	244	272	242	321	282
Other	21	44	13	16	33	50	59	79	84	114	110	143	152	127	149	141	104
Total	3,532	2,951	2,651	2,708	2,701	2,868	2,512	2,216	2,423	2,702	2,797	2,869	3,067	3,076	3,299	3,496	3,527
Eastern Hemisphere																	
Abu Dhabi/United Arab Emirates(a)	74	117	254	333	385	281	172	81	92	30	117	45	44	61	29	28	17
Algeria	190	282	432	552	649	636	488	311	170	240	323	187	271	295	300	269	280
Indonesia	300	389	539	533	573	420	348	366	248	338	343	314	318	285	205	183	114
Italy	74	27	39	51	38	30	4	--	--	--	--	--	76	54	65	34	58
Iran	469	280	298	530	555	304	9	--	35	48	10	27	19	98	--	--	--
Iraq	--	3	26	76	62	88	28	--	3	10	12	46	81	83	345	449	518
Kuwait	5	16	5	48	6	8	27	--	5	14	36	21	68	84	92	157	86
Libya	4	232	453	715	654	658	554	319	26	--	1	4	--	--	--	--	--
Malaysia	12	8	18	63	42	66	70	36	20	4	1	3	12	13	19	39	41
Netherlands	43	18	8	31	5	23	2	30	35	65	65	58	54	60	61	49	55
Nigeria	713	762	1,025	1,135	919	1,080	857	620	514	302	216	293	440	535	618	815	800
Norway	1	17	36	50	104	75	144	119	102	66	114	32	60	80	67	138	102
Oman	1	2	30	79	68	44	25	24	22	34	14	5	9	36	10	19	37
Qatar	17	18	24	67	64	31	22	7	7	--	5	--	13	--	--	2	4
Saudi Arabia	461	715	1,230	1,377	1,144	1,356	1,261	1,129	552	337	325	168	685	751	1,073	1,224	1,339
United Kingdom	8	11	31	124	180	202	176	375	456	382	402	310	350	352	315	215	189
Other	207	208	213	272	324	286	209	363	403	479	656	685	657	815	904	904	850
Total	2,579	3,105	4,662	6,036	5,662	5,588	4,396	3,780	2,690	2,349	2,640	2,198	3,157	3,602	4,103	4,565	4,490
Total U.S. Imports(b)	6,111	6,056	7,313	8,744	8,363	8,456	6,908	5,996	5,113	5,051	5,437	5,067	6,224	6,678	7,402	8,061	8,018

(a) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates
(b) 1989 and 1990 totals reflect an amount with country of origin not identified.
NA Not available on an individual country basis, included in "other"

SOURCE: 1957-1969: U.S. Bureau of Mines
1970-1980: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts"
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annual.

U.S. Direct Petroleum Imports from Members of the Organization of Arab Petroleum Exporting Countries September 1973 - April 1974 (Thousands of Barrels)

	September 1973			October 1973			November 1973			December 1973		
OAPEC Members	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
2. Bahrain	--	38	38	--	589	589	--	552	552	--	99	99
3. Egypt	--	--	--	--	--	--	--	--	--	--	--	--
4. Iraq	515	--	515	364	--	364	--	--	--	--	--	--
5. Kuwait	1,334	--	1,334	1,724	--	1,724	--	--	--	--	--	--
6. Libya	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
7. Qatar	1,222	--	1,222	543	--	543	273	--	273	74	--	74
8. Saudi Arabia	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	2,652	--	2,652	1,920	3	1,923	3,197	--	3,197	--	1	1
OAPEC Total	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
U.S. Total	104,117	88,227	192,344	115,905	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
OAPEC as a % of U.S. Total	30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

	January 1974			February 1974			March 1974			April 1974		
OAPEC Members	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	--	--	--	75	--	75	244	--	244	3,448	141	3,589
2. Bahrain	--	--	--	--	3	3	--	--	--	--	--	--
3. Egypt	--	--	--	--	--	--	--	--	--	543	--	543
4. Iraq	--	--	--	--	--	--	--	--	--	--	--	--
5. Kuwait	--	--	--	--	--	--	--	--	--	62	--	62
6. Libya	29	--	29	468	--	468	142	--	142	244	--	244
7. Qatar	--	--	--	--	--	--	--	--	--	--	--	--
8. Saudi Arabia	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	304	--	304	--	--	--	--	--	--	405	--	405
OAPEC Total	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
U.S. Total	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
OAPEC as a % of U.S. Total	1.3%	0.1%	0.6%	2.6%	(a)	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

(a) Less than one-tenth of one percent

SOURCE: U.S. Bureau of Mines and U.S. Bureau of Census

World Oil Movements
(Thousands of Barrels per Day)

1972

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	30	70	65	--	10	40	5	5	--	225
Canada	1,085	--	--	--	--	--	--	--	--	--	1,085
Caribbean	2,270	520	160	545	5	10	10	--	--	100	3,620
Other Western Hemisphere	45	--	25	--	--	--	30	--	--	--	100
Western Europe	160	15	--	--	40	--	--	--	20	90	325
Middle East	475	250	1,115	8,570	460	1,265	3,770	260	605	180	16,950
North Africa	230	30	250	2,730	10	--	5	--	220	--	3,475
West Africa	265	70	290	1,170	--	--	70	--	30	20	1,915
South East Asia	180	--	10	5	10	--	830	55	--	--	1,090
USSR/ Eastern Europe	20	--	130	970	75	--	25	--	40	--	1,260
Other Eastern Hemisphere	10	--	--	5	--	30	5	--	--	--	50
TOTAL IMPORTS	4,740	915	2,050	14,060	600	1,315	4,785	320	920	390	30,095

1973

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	30	55	85	5	25	30	--	--	--	230
Canada	1,335	--	--	--	--	--	--	--	--	--	1,335
Caribbean	2,540	500	130	355	5	5	10	--	--	85	3,630
Other Western Hemisphere	80	--	100	--	--	--	--	--	--	20	200
Western Europe	265	--	--	--	60	--	--	--	10	70	405
Middle East	820	320	1,000	10,350	535	1,315	4,385	290	775	180	19,970
North Africa	360	40	175	2,545	5	--	20	--	265	10	3,420
West Africa	515	90	415	1,030	--	--	110	--	5	--	2,165
South East Asia	240	--	--	10	--	--	1,115	40	--	--	1,405
USSR/ Eastern Europe	35	--	145	935	75	5	55	--	20	15	1,285
Other Eastern Hemisphere	15	--	--	--	--	25	35	--	5	5	85
TOTAL IMPORTS	6,205	980	2,020	15,310	685	1,375	5,760	330	1,080	385	34,130

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1974

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	–	30	60	75	5	5	35	10	–	–	220
Canada	1,025	–	–	20	–	–	–	–	–	–	1,045
Caribbean	2,320	430	155	320	10	–	10	–	–	–	3,245
Other Western Hemisphere	125	–	120	–	–	–	–	–	–	–	245
Western Europe	240	–	–	–	80	–	15	–	35	95	465
Middle East	1,025	400	1,265	10,195	490	1,320	4,050	285	715	305	20,050
North Africa	230	15	130	1,915	10	–	70	–	255	–	2,625
West Africa	795	15	305	1,300	–	30	100	–	–	–	2,545
South East Asia	315	–	45	5	–	–	990	45	–	–	1,400
USSR/ E. Europe & China	30	–	160	1,010	60	–	120	–	20	–	1,400
Other Eastern Hemisphere	20	–	–	–	–	30	40	–	–	–	90
TOTAL IMPORTS	6,125	890	2,240	14,840	655	1,385	5,430	340	1,025	400	33,330

1975

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	20	65	70	5	--	30	10	10	--	210
Canada	800	--	--	--	--	--	--	--	--	--	800
Latin America	2,270	270	120	380	40	--	20	--	75	--	3,175
Western Europe	45	--	--	--	165	--	--	--	35	--	245
Middle East	1,140	540	1,525	8,815	475	1,450	3,675	255	630	--	18,505
North Africa	500	--	140	1,530	--	--	70	--	165	--	2,405
West Africa	850	20	200	835	--	--	70	--	--	--	1,975
East and South Africa	--	--	--	--	--	35	--	--	--	--	35
South Asia	--	--	--	5	--	--	--	--	--	--	5
South East Asia	400	--	80	--	10	--	885	80	--	--	1,455
Japan	--	--	--	5	--	--	--	--	--	--	5
Australasia	5	--	--	--	--	10	35	--	--	--	50
USSR/ E. Europe & China	15	--	210	970	15	70	160	--	30	--	1,470
TOTAL IMPORTS	6,025	850	2,340	12,610	710	1,565	4,945	345	945	--	30,335

See notes and sources at end of table

Section IX
Table 10b

World Oil Movements
(Thousands of Barrels per Day)

1976

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	10	70	80	10	5	30	5	10	--	220
Canada	595	--	--	5	--	--	--	--	--	--	600
Latin America	2,010	320	140	335	10	--	10	5	30	450	3,310
Western Europe	160	--	--	--	100	--	--	--	85	--	345
Middle East	1,910	385	1,725	9,405	490	1,630	3,955	255	710	390	20,855
North Africa	915	20	160	1,680	15	10	45	--	225	--	3,070
West Africa	1,085	30	230	860	--	--	25	--	--	--	2,230
East and South Africa	--	--	--	--	--	30	--	--	--	--	30
South East Asia	585	--	15	5	--	--	1,080	80	--	--	1,765
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	40	--	--	--	55
USSR/ E. Europe & China	20	--	160	1,355	20	100	135	--	25	--	1,815
TOTAL IMPORTS	7,290	765	2,500	13,725	645	1,785	5,320	345	1,085	840	34,300

1977

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	25	105	75	5	--	30	5	5	--	250
Canada	540	--	--	--	--	--	--	--	--	--	540
Latin America	2,205	290	110	290	45	--	10	--	65	100	3,115
Western Europe	250	--	10	--	130	5	--	5	80	--	480
Middle East	2,560	395	1,570	8,855	485	1,600	4,095	240	805	125	20,730
North Africa	1,320	--	150	1,735	5	--	25	--	60	--	3,295
West Africa	1,220	--	275	845	--	--	--	--	30	--	2,370
East and South Africa	--	--	--	--	--	20	--	--	--	--	20
South Asia	--	--	--	--	--	--	--	--	--	--	--
South East Asia	590	--	--	20	5	--	1,155	90	5	50	1,915
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	45	--	--	--	60
USSR/ E. Europe & China	15	--	180	1,475	5	120	150	--	30	--	1,975
TOTAL IMPORTS	8,710	710	2,400	13,295	680	1,755	5,510	340	1,080	275	34,755

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1978

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	90	90	85	10	5	30	5	50	--	365
Canada	445	--	--	--	--	--	--	--	--	--	445
Latin America	2,225	290	360	345	25	--	15	--	40	100	3,400
Western Europe	375	--	--	--	135	--	--	--	40	--	550
Middle East	2,300	275	1,525	8,685	425	1,610	4,010	250	515	135	19,730
North Africa	1,310	--	200	1,770	15	--	10	--	65	--	3,370
West Africa	975	--	300	780	60	--	--	--	--	--	2,115
East and South Africa	--	--	--	5	--	5	--	--	--	--	10
South Asia	--	--	--	5	--	--	--	--	--	--	5
South East Asia	570	--	--	20	15	--	1,085	100	--	--	1,790
Japan	5	--	--	--	--	10	--	--	--	--	15
Australasia	10	--	--	--	--	10	35	--	--	--	55
USSR/ E. Europe & China	10	--	200	1,395	25	200	150	--	30	--	2,010
TOTAL IMPORTS	8,225	655	2,675	13,090	710	1,840	5,335	355	740	235	33,860

1979

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	100	225	105	--	15	35	5	--	--	485
Canada	455	--	--	--	--	--	--	--	--	--	455
Latin America	2,410	230	210	270	25	--	10	--	135	355	3,645
Western Europe	350	--	--	--	145	--	--	--	25	--	520
Middle East	2,115	260	1,535	8,685	440	1,745	4,155	285	910	305	20,435
North Africa	1,355	20	120	1,870	20	--	15	--	25	--	3,425
West Africa	1,185	--	390	1,010	60	--	--	--	--	--	2,645
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	10	10	--	20	--	40
South East Asia	530	--	25	25	10	--	1,215	90	20	--	1,915
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	10	--	-	--	--	--	15	--	--	--	25
USSR/ E. Europe & China	--	--	200	1,115	35	180	150	--	60	--	1,740
TOTAL IMPORTS	8,410	610	2,705	13,080	735	1,970	5,605	380	1,195	660	35,350

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1980

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	105	290	145	5	10	--	--	--	--	555
Canada	370	--	--	30	--	10	10	--	--	25	445
Latin America	2,050	215	275	625	50	--	80	5	235	350	3,885
Western Europe	355	5	--	--	85	5	--	--	10	--	460
Middle East	1,555	300	1,615	7,275	445	1,745	3,560	220	695	100	17,510
North Africa	1,015	5	135	1,440	15	--	55	--	155	--	2,820
West Africa	985	5	420	990	60	--	15	--	--	--	2,475
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	--	5	--	35	--	40
South East Asia	405	--	--	15	25	--	1,075	140	45	--	1,705
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	--	--	--	5	--	10	5	--	--	--	20
USSR/ E. Europe & China	--	--	205	1,300	--	225	180	--	95	--	2,005
TOTAL IMPORTS	6,735	635	2,940	11,825	685	2,020	4,985	365	1,270	475	31,935

1981

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	95	260	135	5	40	40	10	10	10	605
Canada	425	--	5	15	5	--	--	--	--	5	455
Latin America	1,950	295	220	880	105	--	155	25	380	370	4,380
Western Europe	525	5	--	--	105	10	5	--	110	--	760
Middle East	1,255	195	1,395	5,750	385	1,755	3,020	180	555	115	14,605
North Africa	655	30	70	1,350	--	--	70	--	--	--	2,175
West Africa	720	5	285	660	40	--	20	--	--	--	1,730
East and South Africa	--	--	--	--	10	5	5	--	--	--	20
South Asia	--	--	--	--	--	5	5	5	30	--	45
South East Asia	395	--	--	50	20	--	950	95	150	--	1,660
Japan	--	--	--	--	--	5	--	5	--	--	10
Australasia	5	--	--	--	--	10	--	--	--	--	15
USSR/ E. Europe & China	20	--	185	1,405	--	240	190	--	155	--	2,195
TOTAL IMPORTS	5,950	625	2,420	10,245	675	2,070	4,460	320	1,390	500	28,655

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1982

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	90	315	225	10	65	75	10	10	15	815
Canada	470	--	--	10	--	--	5	--	--	--	485
Latin America	2,050	180	415	750	100	10	150	--	150	330	4,135
Western Europe	580	25	30	--	155	10	--	5	160	--	965
Middle East	770	95	920	4,625	275	1,640	2,755	155	425	--	11,660
North Africa	245	15	125	1,500	20	--	45	--	190	5	2,145
West Africa	605	5	105	700	45	--	--	--	40	--	1,500
East and South Africa	--	--	--	--	20	5	--	--	--	--	25
South Asia	--	--	--	45	--	5	5	5	10	--	70
South East Asia	275	--	--	25	20	--	890	135	135	--	1,480
Japan	--	--	--	5	--	5	--	5	--	--	15
Australasia	5	--	--	--	--	--	20	--	--	--	25
USSR/ E. Europe & China	40	--	200	1,465	--	240	210	5	85	--	2,245
TOTAL IMPORTS	5,040	410	2,110	9,350	645	1,980	4,155	320	1,205	350	25,565

1983

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	80	255	185	15	80	105	15	5	--	740
Canada	540	--	--	--	--	--	5	--	--	--	545
Latin America	2,160	125	425	820	65	5	180	5	160	120	4,065
Western Europe	550	15	25	--	145	5	--	5	105	10	860
Middle East	575	60	855	3,415	405	1,615	2,750	120	545	15	10,355
North Africa	280	25	60	1,675	5	--	40	--	95	--	2,180
West Africa	475	15	115	755	25	--	5	--	35	--	1,425
East and South Africa	--	--	--	--	--	5	--	--	--	--	5
South Asia	--	--	--	5	10	25	15	10	--	--	65
South East Asia	345	--	--	25	20	--	780	85	55	90	1,400
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	5	--	--	--	--	10	30	--	5	--	50
USSR/ E. Europe & China	60	--	220	1,785	--	240	235	5	110	--	2,655
TOTAL IMPORTS	4,990	320	1,955	8,665	690	1,995	4,145	245	1,115	235	24,355

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1984

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	255	205	10	60	90	10	5	--	720
Canada	625	--	--	--	--	--	5	--	--	25	655
Latin America	2,255	125	420	875	65	--	185	--	120	55	4,100
Western Europe	620	25	40	--	80	--	--	5	75	15	860
Middle East	615	70	700	3,045	340	1,555	2,830	110	525	55	9,845
North Africa	315	30	80	1,650	35	--	25	--	155	--	2,290
West Africa	445	5	105	965	55	--	--	--	40	55	1,670
East & South Africa	--	--	--	--	5	--	--	--	--	10	15
South Asia	--	--	--	20	5	10	15	--	--	5	55
South East Asia	375	--	--	35	10	--	880	105	65	130	1,600
Japan	--	--	--	--	--	10	--	--	--	5	15
Australasia	40	--	--	--	--	15	5	--	--	--	60
USSR/ E. Europe & China	90	0	200	1,800	--	385	270	--	120	--	2,865
TOTAL IMPORTS	5,380	340	1,800	8,595	605	2,035	4,305	230	1,105	355	24,750

1985

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	70	285	165	10	65	105	5	5	60	770
Canada	750	--	--	5	--	--	--	--	--	--	755
Latin America	2,005	120	320	805	55	70	145	--	45	--	3,565
Western Europe	470	70	15	--	65	5	5	--	95	85	805
Middle East	425	50	635	3,020	350	1,390	2,715	65	690	--	9,340
North Africa	205	35	100	1,725	20	--	55	--	275	--	2,415
West Africa	505	10	170	965	80	10	--	--	25	--	1,765
East and South Africa	--	--	--	--	15	--	--	--	--	--	15
South Asia	--	--	--	20	--	5	10	--	--	10	45
South East Asia	410	--	--	50	30	--	815	100	80	75	1,555
Japan	--	--	--	--	--	15	--	--	--	--	15
Australasia	40	--	--	--	--	40	65	--	--	--	145
USSR/ E.Europe & China	100	--	295	1,610	5	465	280	--	1,610	50	4,415
TOTAL IMPORTS	4,910	355	1,820	8,365	630	2,065	4,195	170	2,825	280	25,605

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1986

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	240	205	5	75	35	10	30	80	765
Canada	670	--	--	5	--	--	--	--	--	--	675
Latin America	2,205	75	160	630	55	80	210	--	70	115	3,600
Western Europe	615	130	25	--	110	--	15	--	90	105	1,090
Middle East	915	95	570	3,520	335	1,430	2,715	100	930	270	10,880
North Africa	275	--	--	1,830	15	--	30	--	365	--	2,515
West Africa	640	45	150	1,060	80	--	--	--	5	--	1,980
East and South Africa	--	--	--	5	--	--	--	--	--	--	5
South Asia	20	--	--	15	--	--	15	10	--	--	60
South East Asia	525	--	--	5	5	--	795	70	110	40	1,550
Japan	--	--	--	--	--	10	--	--	10	--	20
Australasia	30	--	--	--	--	30	45	--	--	--	105
USSR/ E.Europe & China	150	--	475	1,585	--	350	280	--	1,570	35	4,445
TOTAL IMPORTS	6,045	430	1,620	8,860	605	1,975	4,140	190	3,180	645	27,690

1987

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	295	180	5	70	30	15	10	55	745
Canada	610	--	--	5	--	--	15	--	--	--	630
Latin America	2,170	50	--	245	--	20	190	5	--	355	3,035
Western Europe	585	150	25	--	120	5	--	5	50	115	1,055
Middle East	1,120	35	255	3,375	330	1,555	2,710	110	825	--	10,315
North Africa	340	--	10	1,605	--	35	40	--	405	--	2,435
West Africa	855	25	60	835	60	5	5	--	35	--	1,880
East and South Africa	--	--	--	5	--	--	--	--	--	--	5
South Asia	25	--	--	5	--	5	15	5	--	--	55
South East Asia	330	--	10	5	--	--	825	80	50	55	1,355
Japan	5	--	--	--	--	20	--	--	5	--	30
Australasia	55	--	--	--	--	50	35	--	--	--	140
USSR/ E. Europe and China	150	--	345	1,645	30	255	260	--	1,690	105	4,480
TOTAL IMPORTS	6,245	345	1,000	7,905	545	2,020	4,125	220	3,070	685	26,160

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1988

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	86	258	162	4	94	50	19	12	9	694
Canada	682	--	--	9	--	--	4	3	6	--	704
Latin America	2,084	103	--	628	--	34	189	--	--	55	3,093
Western Europe	649	203	11	--	84	14	9	3	84	2	1,059
Middle East	1,601	57	367	3,554	382	2,059	2,797	147	878	--	11,842
North Africa	333	--	--	1,898	--	133	58	--	176	--	2,598
West Africa	894	44	128	826	86	26	6	--	--	12	2,022
East and South Africa	1	--	--	--	--	--	--	1	--	--	2
South Asia	30	--	--	--	--	3	37	3	--	--	73
South East Asia	242	--	8	23	--	12	909	80	33	--	1,307
Japan	1	--	--	--	--	15	--	--	--	1	17
Australasia	53	1	--	--	--	74	35	--	1	--	164
USSR/ E.Europe & China	180	--	274	2,004	16	434	318	2	1,849	574	5,651
TOTAL IMPORTS	6,750	494	1,046	9,104	572	2,898	4,412	258	3,039	653	29,226

1989

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	92	333	163	4	58	122	24	12	9	817
Canada	921	--	--	4	--	6	6	--	--	7	944
Latin America	2,586	90	--	587	--	13	166	2	1	66	3,511
Western Europe	585	196	6	--	124	30	7	10	72	300	1,330
Middle East	1,896	70	412	3,938	312	2,581	3,030	195	955	--	13,389
North Africa	296	1	--	1,930	--	14	16	1	157	--	2,415
West Africa	1,202	64	--	797	182	62	12	--	--	--	2,319
East and South Africa	26	--	--	8	--	--	--	--	--	--	34
South Asia	36	--	--	2	--	26	5	5	1	--	75
South East Asia	271	--	50	7	29	12	858	87	135	234	1,683
Japan	3	--	--	--	--	49	--	--	6	1	59
Australasia	35	--	1	--	--	93	27	--	11	51	218
USSR/ E.Europe & China	162	5	402	1,948	15	457	300	4	1,186	185	4,664
TOTAL IMPORTS	8,019	518	1,204	9,384	666	3,401	4,549	328	2,536	853	31,458

See notes and sources at end of table

Section IX
Table 10i

World Oil Movements
(Thousands of Barrels per Day)

1990

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	97	309	214	3	125	96	21	16	8	889
Canada	932	--	1	3	--	8	5	--	--	6	955
Latin America	2,618	81	--	561	--	27	158	1	--	308	3,754
Western Europe	548	353	8	--	60	9	9	6	133	509	1,635
Middle East	2,026	78	164	4,001	354	3,126	3,245	250	406	562	14,212
North Africa	322	7	--	2,051	--	3	14	1	206	--	2,604
West Africa	1,148	51	--	854	164	14	17	--	--	--	2,248
East and South Africa	23	--	--	--	--	--	--	--	--	--	23
South Asia	30	--	--	5	--	44	2	1	2	--	84
Other Asia	183	--	19	7	--	5	917	93	--	274	1,498
Japan	1	--	--	--	--	73	--	1	--	--	75
Australasia	53	--	--	4	--	19	26	--	--	103	205
USSR/ C. Europe & China	142	4	257	2,047	32	319	313	7	1,272	100	4,493
TOTAL IMPORTS	8,026	671	758	9,747	613	3,772	4,802	381	2,035	1,870	32,675

(a) Includes changes in the quantity of oil in transit, transit losses, minor increments not otherwise shown, unidentified military use, etc.

SOURCE: BP Statistical Review of World Energy

Historical United States Imports of Crude Oil and Refined Products: 1918-1946

	Crude Oil		Refined Products	
Year	**Thous. of Bbls**	**Thous. of B/D**	**Thous. of Bbls**	**Thous. of B/D**
1918	5,884	16	62,128	170
1919	6,348	17	57,500	158
1920	9,295	25	70,281	192
1921	9,627	26	62,215	170
1922	10,805	30	63,759	175
1923	17,534	48	84,713	232
1924	18,239	50	99,291	271
1925	13,337	37	100,841	276
1926	15,407	42	116,881	320
1927	15,844	43	126,159	346
1928	18,966	52	136,374	373
1929	26,401	72	137,133	376
1930	23,705	65	133,164	365
1931	25,535	70	99,146	272
1932	27,393	75	76,134	208
1933	36,584	100	70,430	193
1934	41,127	113	73,707	202
1935	51,430	141	77,925	213
1936	50,313	137	82,056	224
1937	67,234	184	106,077	291
1938	77,254	212	116,891	320
1939	72,076	197	117,473	322
1940	51,496	141	78,970	216
1941	33,238	91	75,592	207
1942	33,834	93	83,073	228
1943	41,342	113	108,615	298
1944	34,238	94	173,378	474
1945	32,998	90	149,985	411
1946	42,436	116	110,687	303

SOURCE: U.S. Bureau of Mines, Minerals Industry Surveys and "Annual Petroleum Statements".

BASIC PETROLEUM DATA BOOK

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Crude Oil and Its Products
Table 2. U.S. Exports of Petroleum to Selected Areas
Table 3. African Oil Exports to Selected Areas
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Total U. S. Domestic Production and Exports of Crude Oil and its Products
(Thousands of barrels)

Year	Production(a)	Exports	Exports as a % of U.S. Production
1947	1,989,850	164,477	8.3
1948	2,167,264	134,674	6.2
1949	1,999,215	119,376	6.0
1950	2,155,693	111,306	5.2
1951	2,452,465	154,052	6.3
1952	2,513,351	158,188	6.3
1953	2,596,661	146,591	5.6
1954	2,567,121	129,733	5.1
1955	2,765,799	134,188	4.9
1956	2,910,010	157,386	5.4
1957	2,911,891	207,187	7.1
1958	2,743,736	100,638	3.7
1959	2,895,347	77,067	2.7
1960	2,915,090	73,906	2.5
1961	2,983,447	63,563	2.1
1962	3,048,894	61,390	2.0
1963	3,153,609	75,914	2.4
1964	3,209,293	73,879	2.3
1965	3,290,070	68,288	2.1
1966	3,496,398	72,400	2.1
1967	3,730,198	112,060	3.0
1968	3,879,353	84,544	2.2
1969	3,951,992	84,885	2.1
1970	4,123,366	94,458	2.3
1971	4,071,729	81,685	2.0
1972	4,093,584	81,389	2.0
1973	3,995,326	84,413	2.1
1974	3,818,683	80,491	2.1
1975	3,652,737	76,428	2.1
1976	3,563,225	81,599	2.3
1977	3,599,720	88,588	2.5
1978	3,750,302	132,057	3.5
1979	3,699,333	171,856	4.6
1980	3,722,152	199,256	5.4
1981	3,715,743	217,024	5.8
1982	3,722,591	297,514	8.0
1983	3,730,085	269,890	7.2
1984	3,846,173	264,077	6.9
1985	3,861,911	285,069	7.4
1986	3,734,252	286,373	7.7
1987	3,629,669	278,731	7.7
1988	3,573,815	298,466	8.4
1989	3,342,898	313,460	9.4
1990	3,253,686	312,671	9.6

(a) Figures include crude oil, lease condensate, and natural gas liquids.

SOURCE: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

Section X
Table 2

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

Year	Canada		Mexico		Caribbean(a)		Other Latin American		United Kingdom	
	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products
1947	39,058	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565
1948	33,298	20,629	62	4,157	1,498	8,788	1,417	3,439	471	16,223
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410
1950(b)	30,708	15,953	–	6,229	1,829	7,278	661	4,141	441	5,868
1951(b)	21,172	17,867	–	7,034	2,167	9,729	1,356	3,932	457	13,914
1952(b)	20,172	25,211	–	7,130	2,513	13,703	1,789	4,295	499	9,889
1953(b)	14,025	26,939	–	8,281	2,620	10,399	1,081	3,515	418	9,201
1954(b)	8,130	22,635	–	12,003	2,928	7,185	608	5,003	462	7,687
1955(b)	6,501	20,329	--	16,062	3,136	7,713	236	6,426	532	8,875
1956(b)	5,570	20,560	--	16,485	3,262	9,979	–	5,007	5,238	10,831
1957(b)	8,240	18,307	902	15,950	3,283	11,120	--	7,110	14,880	19,660
1958(b)	1,153	13,497	696	11,568	592	7,977	–	3,661	378	6,010
1959	–	16,061	21	8,297	--	3,978	–	4,753	405	6,592
1960	–	12,622	–	6,428	--	3,315	–	4,131	433	3,840
1961	20	8,381	133	4,415	--	3,721	1	3,143	437	3,268
1962	8	7,706	–	4,981	--	2,888	–	3,417	428	2,616
1963	2	7,985	3	6,889	--	3,481	–	3,036	424	3,443
1964	7	9,791	3	8,920	--	4,503	–	3,656	336	3,191
1965	12	9,619	333	9,452	--	3,322	1	2,635	352	3,924
1966	2	11,715	203	13,955	–	2,179	–	3,240	431	3,784
1967	3,688	14,521	18	12,999	645	3,479	–	4,444	16,959	5,562
1968	5	14,126	114	11,140	283	1,603	–	5,138	352	4,838
1969	30	16,017	1	12,098	220	2,511	–	5,829	430	4,421
1970	328	10,855	–	12,142	4,264	3,272	–	4,565	176	4,185
1971	60	9,384	–	15,180	181	4,474	–	5,484	120	3,053
1972	–	9,599	–	15,061	--	3,888	–	4,374	–	3,705
1973	–	11,427	–	15,984	--	3,614	–	4,294	–	3,249
1974	108	11,504	–	12,885	966	3,023	–	4,005	–	2,317
1975	19	8,139	–	15,425	2,127	3,114	–	3,386	–	2,636
1976	2,241	8,096	–	12,677	700	8,772	–	3,474	–	2,732
1977	16,460	9,548	–	8,893	1,795	3,566	–	3,338	–	3,136
1978	28,761	10,640	–	9,877	28,967	3,373	–	4,459	–	2,447
1979	26,079	10,299	–	7,835	59,628	3,538	–	4,718	–	2,493
1980(c)	30,567	8,822	–	10,085	74,367	9,942	–	4,006	–	2,386
1981(c)	16,440	16,102	–	9,416	65,104	18,692	–	2,781	–	1,971
1982(c)	13,083	18,019	–	19,464	67,633	23,531	–	6,714	–	5,167
1983(c)	6,781	21,047	–	8,812	46,431	21,026	–	6,966	–	3,047
1984(c)	5,784	24,672	–	12,681	49,498	20,570	–	11,046	–	5,291
1985(c)	7,523	19,463	–	22,187	55,019	20,772	–	10,174	–	5,210
1986(c)	6,040	25,027	–	20,525	39,954	20,225	–	11,408	–	3,095
1987(c)	5,988	24,247	–	25,544	47,864	27,966	–	6,943	7	2,359
1988(c)	3,737	26,897	–	25,764	52,024	19,959	–	16,949	–	3,370
1989(c)	2,739	30,935	--	32,544	48,044	21,566	--	21,019	--	3,443
1990(c)	3,974	29,363	–	32,623	35,287	24,025	–	17,909	–	3,863

See notes and sources at end of table

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

	Other European		Middle East		Japan		Other Australasian		Africa		
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Total U.S. Exports
1947	4,424	20,674	N.A.	N.A.	–	–	–	14,565	–	2,786	164,477
1948	2,991	13,150	N.A.	N.A.	–	–	–	8,570	–	2,400	134,674
1949	547	12,423	N.A.	N.A.	–	364	–	7,176	–	2,922	119,376
1950(b)	851	8,227	N.A.	N.A.	334	92	–	2,953	–	1,916	111,306
1951(b)	1,048	12,284	N.A.	N.A.	2,403	4,878	–	11,406	–	4,783	154,052
1952(b)	976	9,466	N.A.	N.A.	748	7,286	–	13,126	–	5,896	158,188
1953(b)	926	7,809	N.A.	N.A.	862	10,508	–	8,740	–	5,043	146,591
1954(b)	745	5,424	N.A.	N.A.	726	8,166	–	5,996	–	2,734	129,733
1955(b)	650	7,385	N.A.	N.A.	515	11,282	–	4,363	–	1,636	134,188
1956(b)	13,377	14,560	N.A.	N.A.	1,055	9,790	–	4,309	122	2,154	157,386
1957(b)	21,003	29,660	N.A.	N.A.	1,057	13,642	339	6,431	539	3,328	207,187
1958(b)	450	9,420	N.A.	N.A.	1,076	12,486	–	4,491	–	2,368	100,638
1959	550	9,515	N.A.	N.A.	1,548	16,153	–	5,819	–	2,383	77,067
1960	568	10,395	N.A.	N.A.	2,086	20,595	–	5,891	–	2,332	73,906
1961	355	9,401	N.A.	N.A.	2,218	19,255	55	5,930	–	1,686	63,563
1962	–	10,290	N.A.	N.A.	1,354	18,333	–	6,544	–	2,655	61,390
1963	1	19,933	N.A.	N.A.	1,266	20,080	1	7,316	–	3,066	76,926
1964	–	14,387	N.A.	N.A.	952	19,429	63	6,602	–	2,206	74,046
1965	–	13,365	N.A.	N.A.	306	14,466	–	7,648	–	1,596	68,288
1966	1	13,522	N.A.	N.A.	808	12,283	31	7,077	1	2,019	72,400
1967	4,604	15,318	N.A.	N.A.	626	17,938	–	7,299	1	2,179	112,060
1968	–	14,912	N.A.	N.A.	1,048	19,566	–	7,779	–	2,026	84,545
1969	–	17,005	N.A.	N.A.	755	16,314	–	7,364	–	1,849	84,885
1970	–	20,250	N.A.	N.A.	223	24,868	–	6,433	–	1,475	94,458
1971	–	19,406	–	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	–	24,033	–	1,158	187	11,475	–	6,165	–	1,744	81,389
1973	177	24,863	–	957	520	11,782	–	5,888	–	1,658	84,413
1974	–	24,238	–	1,146	–	13,809	–	4,728	–	1,762	80,491
1975	–	24,846	–	995	–	10,012	–	3,550	–	2,179	76,428
1976	–	27,220	–	1,280	–	9,326	–	3,725	–	1,356	81,599
1977	–	25,933	–	1,034	–	8,951	–	4,213	–	1,721	88,588
1978	–	26,457	–	1,380	–	9,642	–	4,802	–	1,252	132,057
1979	–	37,497	–	1,085	–	12,543	–	4,416	–	1,725	171,856
1980(c)	–	34,885	–	1,291	–	11,596	–	9,028	–	2,280	199,256
1981(c)	–	47,710	–	1,912	–	14,014	7	16,715	–	2,595	217,024
1982(c)	–	77,969	–	2,182	–	24,836	–	28,077	–	2,791	297,514
1983(c)	–	66,025	–	1,808	–	38,132	–	35,904	–	3,097	269,854
1984(c)	–	56,913	–	1,750	–	33,657	–	24,263	–	2,724	264,077
1985(c)	–	55,580	–	1,315	–	39,468	–	18,215	–	2,668	285,069
1986(c)	–	70,183	–	2,375	–	39,975	–	30,592	–	2,345	286,373
1987(c)	–	56,432	–	3,107	–	43,799	1,105	29,693	–	1,337	278,732
1988(c)	–	58,048	–	2,270	–	45,435	951	40,398	–	1,541	298,466
1989(c)	–	57,221	–	2,860	–	44,528	900	43,181	–	1,173	313,460
1990(c)	–	71,907	–	4,128	–	33,741	392	51,594	–	1,046	312,671

See notes and sources at end of table

Section X
Table 2b

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

N.A. Not Available
(a) As of 1971 includes exports to Puerto Rico and Virgin Islands.
(b) Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419
(c) Includes exports to Greenland and other.

SOURCE: 1947-1974: U.S. Bureau of Mines, Minerals Yearbook.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals.

African Oil Exports to Selected Areas
(Thousands of barrels per day)

Year(a	United States	Western Europe	Japan	All Others	African Exports
1960	--	237	--	--	237
1961	5	430	--	--	435
1962	25	740	--	--	765
1963	25	1,125	--	30	1,180
1964	55	1,565	--	30	1,650
1965	70	2,040	--	30	2,140
1966	90	2,540	5	130	2,765
1967	55	2,700	--	155	2,910
1968	170	3,535	5	165	3,875
1969	330	4,370	15	230	4,945
1970	125	5,330	50	300	5,805
1971	195	4,430	60	805	5,490
1972	495	3,900	75	920	5,390
1973	875	3,575	130	1,005	5,585
1974	1,025	3,215	170	760	5,170
1975	1,350	2,365	140	560	4,415
1976	2,000	2,540	70	720	5,330
1977	2,540	2,580	25	540	5,685
1978	2,285	2,555	10	645	5,495
1979	2,540	2,880	15	645	6,080
1980	2,000	2,430	70	805	5,305
1981	1,375	2,010	95	445	3,925
1982	850	2,200	45	575	3,670
1983	755	2,430	45	380	3,610
1984	760	2,615	25	575	3,975
1985	705	2,690	55	745	4,195
1986	915	2,895	30	660	4,500
1987	1,195	2,445	45	635	4,320
1988	1,228	2,724	64	606	4,622
1989	1,524	2,735	28	481	4,768
1990	1,493	2,905	31	446	4,875

(a) Not available prior to 1960

SOURCE: "BP Statistical Review of World Energy," Annual

Section X
Table 4

Middle East Oil Exports to Selected Areas
(Thousands of barrels per day)

Year(a	United States	Western Europe	Japan	All Others	Middle East Exports
1959	355	2,528	–	1,060	4,120
1960	347	2,724	–	1,619	4,690
1961	345	2,855	610	1,280	5,090
1962	315	3,060	720	1,490	5,585
1963	295	3,400	920	1,540	6,155
1964	310	3,740	1,115	1,760	6,925
1965	350	4,195	1,435	1,630	7,610
1966	320	4,375	1,650	2,280	8,625
1967	200	4,605	2,035	2,305	9,145
1968	270	5,065	2,650	2,460	10,445
1969	265	5,780	3,055	2,425	11,525
1970	175	6,220	3,485	2,835	12,715
1971	390	7,685	3,810	3,365	15,250
1972	475	8,570	3,770	4,135	16,950
1973	820	10,350	4,385	4,415	19,970
1974	1,025	10,195	4,050	4,780	20,050
1975	1,140	8,815	3,675	4,875	18,505
1976	1,910	9,405	3,955	5,585	20,855
1977	2,560	8,855	4,095	5,220	20,730
1978	2,300	8,685	4,010	4,735	19,730
1979	2,115	8,685	4,155	5,480	20,435
1980	1,555	7,275	3,560	5,120	17,510
1981	1,255	5,750	3,020	4,580	14,605
1982	770	4,625	2,755	3,510	11,660
1983	575	3,415	2,750	3,615	10,355
1984	615	3,045	2,830	3,355	9,845
1985	425	3,020	2,715	3,180	9,340
1986	915	3,520	2,715	3.730	10,880
1987	1,120	3,375	2,710	3,110	10,315
1988	1,601	3,554	2,797	3,890	11,842
1989	1,896	3,938	3,030	4,525	13,389
1990	2,026	4,001	3,245	4,940	14,212

(a) Not available prior to 1959.

SOURCE: BP Statistical Review of World Energy, Annual.

The Role of Middle East and African Oil in Western European and Japanese Consumption (Thousands of Barrels Per Day)

	Western Europe			Japan		
Year	Consumption	From the Middle East	From Africa	Consumption	From the Middle East	From Africa
1961	4,453	2,855	430	821	610	--
1962	5,128	3,060	740	934	720	--
1963	5,893	3,400	1,125	1,212	920	--
1964	6,692	3,740	1,565	1,484	1,115	--
1965	7,525	4,195	2,040	1,743	1,435	--
1966	8,360	4,375	2,540	1,979	1,650	5
1967	8,937	4,605	2,700	2,144	2,035	--
1968	9,958	5,065	3,535	2,660	2,650	5
1969	11,378	5,780	4,370	3,250	3,055	15
1970	12,364	6,220	5,330	3,847	3,485	50
1971	12,912	7,685	4,430	4,179	3,810	60
1972	13,847	8,570	3,900	4,364	3,770	75
1973	14,492	10,350	3,575	5,071	4,385	130
1974	13,681	10,195	3,215	4,960	4,050	170
1975	12,603	8,815	2,365	4,502	3,675	140
1976	13,448	9,405	2,540	4,771	3,955	70
1977	14,235	8,855	2,580	5,345	4,095	25
1978	14,630	8,685	2,555	5,420	4,010	10
1979	15,037	8,685	2,880	5,485	4,155	15
1980	13,826	7,275	2,430	4,935	3,560	70
1981	12,775	5,750	2,010	4,695	3,020	95
1982	12,210	4,625	2,200	4,395	2,755	45
1983	11,940	3,415	2,430	4,390	2,750	45
1984	12,050	3,045	2,615	4,620	2,830	25
1985	11,865	3,020	2,690	4,435	2,715	55
1986	12,340	3,520	2,895	4,495	2,715	30
1987	12,365	3,375	2,445	4,500	2,710	45
1988	12,525	3,554	2,724	4,805	2,797	64
1989	12,510	3,938	2,735	5,005	3,030	28
1990	13,045	4,001	2,905	5,255	3,245	31

SOURCE: 1961-1980: Western Europe and Japanese Consumption: U.S. Energy Information Administration, International Petroleum Annual
1981-1990: Western Europe and Japanese Consumption: BP Statistical Review of World Energy
1961-1990: Middle East and African Exports: BP Statistical Review of World Energy

Section X
Table 6

The Role of Middle East and African Oil in World Exports
(Thousands of Barrels/Day)

	Middle East		Africa		Total World	
Year	Production	Exports	Production	Exports	Production	Exports
1961	5,633	5,090	489	435	22,428	9,870
1962	6,186	5,585	804	765	24,334	11,285
1963	6,812	6,155	1,190	1,180	26,132	12,205
1964	7,613	6,925	1,704	1,650	28,168	13,625
1965	8,367	7,610	2,224	2,140	30,308	15,110
1966	9,338	8,625	2,821	2,765	32,936	16,890
1967	10,048	9,145	3,117	2,910	35,382	17,905
1968	11,298	10,445	3,992	3,875	38,651	20,400
1969	12,447	11,525	5,069	4,945	41,706	22,640
1970	13,957	12,715	6,069	5,805	45,805	25,420
1971	16,381	15,250	5,645	5,490	48,391	27,285
1972	18,116	16,950	5,699	5,390	50,822	30,095
1973	21,219	19,970	5,922	5,585	55,803	34,130
1974	21,882	20,050	5,452	5,170	56,268	33,330
1975	19,619	18,505	5,003	4,415	53,418	30,335
1976	22,174	20,855	5,832	5,330	58,059	34,300
1977	22,600	20,730	6,236	5,685	62,620	34,755
1978	21,415	19,730	6,115	5,495	63,085	33,860
1979	21,558	20,435	6,640	6,080	62,658	35,350
1980	18,407	17,510	6,031	5,305	59,454	31,935
1981	15,752	14,605	4,581	3,925	55,837	28,655
1982	12,664	11,660	4,465	3,670	53,092	25,565
1983	11,550	10,335	4,410	3,610	52,625	24,355
1984	11,279	9,845	4,683	3,975	53,674	24,750
1985	10,305	9,340	4,855	4,195	52,931	25,605
1986	12,710	10,880	4,986	4,500	55,684	27,690
1987 (a)	13,125	10,315	5,290	4,320	60,150	26,160
1988	15,000	11,842	5,480	4,622	62,350	29,226
1989	16,590	13,389	5,945	4,768	63,560	32,088
1990	17,215	14,212	6,535	4,875	64,875	31,441

(a) Beginning in 1987, production figures include crude oil, shale oil, oil sands and natural gas liquids.

SOURCE: 1961-1978: Total World, Middle East and African Production, U.S. Energy Information Administration, International Petroleum Annual
1979-1986: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1986: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry

BASIC PETROLEUM DATA BOOK

SECTION XI. OFFSHORE

Table 1. Estimated World Production of Crude Oil, Onshore vs Offshore
Table 2. Estimated Worldwide Offshore Production of Crude Oil by Area
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Table 4. Estimated Worldwide Production of Natural Gas, Onshore-Offshore
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Estimated Worldwide Production of Crude Oil
Onshore vs Offshore

Year	Onshore Production	Offshore Production	Total World Production	Onshore Production	Offshore Production	Total World Production
Thousands of Barrels				Thousands of Barrels per day		
1969	12,961,336	2,261,175	15,222,511	35,511	6,195	41,706
1970	13,961,668	2,757,040	16,718,708	38,251	7,554	45,805
1971	14,649,885	3,012,908	17,662,793	40,126	8,255	48,381
1972	15,346,357	3,254,388	18,600,745	41,930	8,892	50,822
1973	16,729,330	3,638,651	20,367,981	45,835	9,968	55,803
1974	17,140,035	3,397,692	20,537,727	46,957	9,310	56,267
1975	16,316,198	3,186,137	19,502,335	44,689	8,729	53,418
1976	17,661,041	3,530,499	21,191,540	48,253	9,647	57,900
1977	17,738,887	4,161,808	21,900,695	48,600	11,402	60,002
1978	17,961,621	4,196,630	22,158,251	49,210	11,498	60,708
1979	18,139,390	4,625,660	22,765,050	49,852	12,518	62,370
1980	16,754,248	5,009,916	21,764,164	45,766	13,688	59,454
1981	15,395,719	4,984,786	20,380,505	42,180	13,657	55,837
1982	14,432,660	4,942,465	19,375,125	39,542	13,541	53,083
1983	14,199,839	5,011,085	19,210,924	38,904	13,729	52,633
1984	14,124,654	5,628,714	19,753,368	38,592	15,379	53,971
1985	13,967,228	5,521,720	19,488,948	38,266	15,128	53,394
1986	15,248,292	5,080,800	20,329,092	41,776	13,920	55,696
1987	14,846,368	5,322,795	20,169,163	40,675	14,583	55,258
1988	15,774,849	5,270,400	21,045,249	43,101	14,400	57,501
1989	15,973,888	5,410,030	21,383,918	43,764	14,822	58,586
1990	16,088,582	5,626,110	21,714,692	44,078	15,414	59,492

SOURCE: Total World Production: 1969-1979: U.S. Energy Information Administration.
1980-1990: Central Intelligence Agency
United States Offshore Production, U.S. Department of Interior and U.S. Department of Energy
Rest of World Offshore Production, Offshore Magazine

Estimated Worldwide Offshore Production of Crude Oil by Area

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
(Millions of Barrels)												
1970	583.5	897.9	43.4	1,524.8	760.7	239.8	133.2	4.4	2,662.9	94.2	NA	2,662.9
1971	625.7	908.9	69.4	1,604.0	913.4	233.9	158.4	12.0	2,921.7	91.3	NA	2,921.7
1972	621.3	915.0	82.4	1,618.7	1,040.5	276.3	216.7	15.8	3,168.0	86.4	NA	3,168.0
1973	583.4	985.5	65.8	1,634.7	1,282.2	323.2	287.5	24.7	3,552.3	86.1	NA	3,552.3
1974	535.7	756.0	73.7	1,365.4	1,262.7	380.3	275.1	29.9	3,313.4	84.3	NA	3,313.4
1975	496.5	634.0	97.4	1,227.9	1,070.3	364.9	323.2	116.5	3,102.8	83.2	NA	3,102.8
1976	467.8	613.9	107.1	1,188.8	1,198.2	384.6	407.6	270.9	3,450.1	80.5	NA	3,450.1
1977	439.2	456.3	107.7	1,003.2	1,648.0	490.2	549.7	396.0	4,087.1	74.8	NA	4,087.1
1978	416.3	395.7	103.7	915.7	1,734.8	414.3	525.6	532.5	4,122.9	73.7	NA	4,122.9
1979	398.6	383.3	255.1	1,037.0	1,934.1	355.5	490.6	736.6	4,553.8	71.9	NA	4,553.8
1980	379.7	401.1	281.8	1,062.6	2,132.4	349.2	541.7	850.2	4,936.1	73.9	NA	4,936.1
1981	385.4	381.1	503.0	1,269.5	1,936.3	308.8	539.5	858.5	4,912.6	72.3	NA	4,912.6
1982	405.3	374.5	733.3	1,512.9	1,497.2	297.5	589.1	981.1	4,877.1	65.3	NA	4,942.5
1983	436.5	411.7	747.9	1,596.1	1,322.0	310.3	603.7	1,114.3	4,946.5	64.6	NA	4,946.5
1984	469.6	402.6	851.3	1,723.5	1,473.9	382.1	725.8	1,261.2	5,566.5	62.2	NA	5,566.5
1985	456.3	347.1	857.4	1,660.8	1,432.6	371.2	724.2	1,271.7	5,460.8	61.0	NA	5,521.7
1986	457.7	328.5	857.4	1,643.6	1,183.0	322.3	677.4	1,192.8	5,018.8	62.1	NA	5,080.8
1987	436.5	387.6	852.3	1,676.4	1,245.0	407.0	662.1	1,254.9	5,245.4	77.4	NA	5,245.4
1988	435.9	362.0	834.1	1,632.0	1,149.2	524.5	683.7	1,204.1	5,193.5	76.9	NA	5,193.5
1989	411.4	340.2	863.2	1,614.8	1,119.5	506.6	787.3	1,307.8	5,335.6	74.5	NA	5,410.0
1990	394.9	333.2	904.8	1,633.0	1,185.2	520.1	858.8	1,375.3	5,572.5	NA	53.6	5,626.0
(Thousands of barrels per day)												
1970	1,599	2,460	119	4,178	2,084	657	365	12	7,296	258	NA	7,296
1971	1,714	2,490	190	4,394	2,503	641	434	33	8,005	250	NA	8,005
1972	1,698	2,500	225	4,423	2,843	755	592	43	8,656	236	NA	8,656
1973	1,598	2,700	180	4,478	3,513	885	788	68	9,732	236	NA	9,732
1974	1,468	2,071	202	3,741	3,460	1,042	754	82	9,079	231	NA	9,079
1975	1,360	1,737	267	3,364	2,932	1,000	886	319	8,501	228	NA	8,501
1976	1,278	1,677	293	3,248	3,542	783	1,114	740	9,427	220	NA	9,427
1977	1,203	1,250	295	2,748	4,960	898	1,506	1,085	11,197	205	NA	11,197
1978	1.141	1,084	284	2,509	5,195	693	1,440	1,459	11,296	202	NA	11,296
1979	1,092	1,050	699	2,841	5,149	974	1,344	2,018	12,326	192	NA	12,326
1980	1,037	1,096	770	2,903	5,826	954	1,480	2,323	13,486	202	NA	13,486
1981	1,056	1,044	1,378	3,478	5,305	846	1,478	2,352	13,459	198	NA	13,459
1982	1,110	1,026	2,009	4,145	4,102	815	1,614	2,688	13,362	179	NA	13,362
1983	1,196	1,128	2,049	4,373	3,622	850	1,654	3,053	13,552	177	NA	13,552
1984	1,283	1,100	2,326	4,709	4,027	1,044	1,983	3,446	15,209	170	NA	15,209
1985	1,250	951	2,349	4,550	3,925	1,017	1,984	3,484	14,961	167	NA	14,961
1986	1,254	900	2,349	4,503	3,241	883	1,856	3,268	13,750	170	NA	13,750
1987	1,196	1,062	2,335	4,593	3,411	1,115	1,814	3,438	14,371	212	NA	14,371

See notes and sources at end of table

Estimated Worldwide Offshore Production of Crude Oil by Area

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
(Thousands of barrels per day)												
1988	1,191	989	2,279	4,459	3,140	1,433	1,868	3,290	14,190	210	NA	14,190
1989	1,127	932	2,365	4,424	3,067	1,388	2,157	3,583	14,618	204	NA	14,618
1990	1,082	913	2,479	4,474	3,247	1,425	2,353	3,768	15,267	NA	147	15,414

(a) Data not available for prior years.
(b) Due to the political changes in the USSR and East Europe, the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region rather than political ideology.

SOURCE: United States: 1970-1971: U.S. Geological Survey
1972-1990: U.S. Energy Information Administration, Petroleum Supply Annual.
Rest of World: Offshore Magazine.

Section XI
Table 3

Production and Value of United States Crude Oil and Condensate
Onshore vs Offshore

Year	Production (Thousands of Barrels) Onshore	Offshore	Total	Dollar Value at Wellhead (Thousands of Dollars) Onshore(a)	Offshore(b)	Total
Cumulative to 1953	47,367,775	445,942	47,813,717	$81,119,901	$763,977	$81,883,878
1954	2,266,163	48,825	2,314,988	6,289,428	135,502	6,424,930
1955	2,423,885	60,543	2,484,428	6,702,949	167,431	6,870,380
1956	2,542,152	75,131	2,617,283	7,054,406	208,519	7,262,925
1957	2,531,581	85,320	2,616,901	7,815,875	263,384	8,079,259
1958	2,361,047	87,940	2,448,987	7,114,958	265,015	7,379,973
1959	2,471,886	102,704	2,574,590	7,175,225	298,111	7,473,336
1960	2,452,659	122,274	2,574,933	7,067,797	352,384	7,420,181
1961	2,483,272	138,486	2,621,758	7,165,968	399,614	7,565,582
1962	2,503,979	172,210	2,676,189	7,273,791	500,260	7,774,051
1963	2,554,958	197,765	2,752,723	7,393,484	572,259	7,965,743
1964	2,569,436	217,386	2,786,822	7,391,746	625,332	8,017,078
1965	2,606,936	241,578	2,848,514	7,466,393	691,905	8,158,298
1966	2,726,037	301,726	3,027,763	7,856,835	869,588	8,726,423
1967	2,847,820	367,922	3,215,742	8,303,050	1,072,677	9,375,727
1968	2,857,058	471,984	3,329,042	8,406,116	1,388,710	9,794,826
1969	2,841,469	530,282	3,371,751	8,786,876	1,639,804	10,426,680
1970	2,933,985	583,465	3,517,450	9,320,228	1,853,498	11,173,726
1971	2,828,217	625,697	3,453,914	9,574,694	2,118,304	11,692,998
1972	2,834,053	621,315	3,455,368	9,607,440	2,106,258	11,713,698
1973	2,777,538	583,365	3,360,903	10,791,444	2,266,461	13,057,905
1974	2,666,887	535,698	3,202,585	17,970,771	3,609,778	21,580,549
1975	2,560,242	496,537	3,056,779	19,361,086	3,754,973	23,116,059
1976	2,508,356	467,824	2,976,180	20,420,899	3,808,641	24,229,540
1977	2,546,187	439,173	2,985,360	21,996,649	3,794,073	25,790,722
1978	2,761,891	416,325	3,178,216	24,747,514	3,730,310	28,477,824
1979	2,722,715	398,595	3,121,310	34,064,477	4,986,855	39,051,332
1980	2,766,716	379,649	3,146,365	57,791,998	7,930,018	65,722,016
1981	2,743,203	385,421	3,128,624	87,151,743	12,244,641	99,396,384
1982	2,751,434	405,281	3,156,715	78,470,898	11,558,614	90,029,512
1983	2,734,512	436,487	3,170,999	71,616,869	11,431,595	83,048,464
1984	2,780,219	469,477	3,249,696	71,952,068	12,150,065	84,102,132
1985	2,818,450	456,103	3,274,553	67,896,461	10,987,521	78,883,982
1986	2,710,628	457,624	3,168,252	33,909,956	5,724,876	39,634,833
1987	2,610,699	436,679	3,047,378	40,204,765	6,724,857	46,929,621
1988	2,543,168	435,955	2,979,123	31,993,053	5,484,314	37,477,367
1989	2,367,552	411,221	2,778,773	37,549,375	6,521,965	44,071,340
1990(p)	2,289,757	394,930	2,684,687	45,863,833	7,910,448	53,774,281

(a) Total dollar value distributed in proportion to percentages of production onshore and offshore
(p) Preliminary.

SOURCE: Total U.S. Production and Total Dollar Value at Wellhead, through 1974: U.S. Bureau of Mines
Total U.S. production: 1975-1990: Energy Information Administration, Petroleum Supply Annuals.
U.S. offshore production: pre 1973: U.S. Geological Survey
U.S. offshore production: 1973-1974: U.S. Bureau of Mines
U.S. offshore production: 1975-1990: Energy Information Administration, Petroleum Supply Annuals.
Distribution of production and value computed by the American Petroleum Institute for 1975-1990.

Section XI
Table 4

Estimated Worldwide Production of Natural Gas
Onshore vs Offshore

Year	Onshore Production	Offshore Production	Total World Production	Onshore Production	Offshore Production	Total World Production
	Millions of cubic feet			**Millions of cubic feet per day**		
1970	32,763,671	5,330,290 (a)	38,093,961	89,763	14,604 (a)	104,367
1971	NA	NA	41,188,396	NA	NA	112,845
1972	NA	NA	43,524,559	NA	NA	118,920
1973	NA	NA	46,143,601	NA	NA	126,421
1974	NA	NA	47,178,520	NA	NA	129,256
1975	39,985,557	7,532,217	47,517,774	109,550	20,636	130,186
1976	37,455,724	10,849,960	48,305,684	102,338	29,645	131,983
1977	42,518,548	7,581,542	50,100,090	116,490	20,771	137,261
1978	42,210,443	9,538,859	51,749,302	115,645	26,134	141,779
1979	42,748,966	10,092,084	52,841,050	117,120	27,650	144,770
1980	43,949,440	10,189,646	54,139,086	120,080	27,841	147,921
1981	43,327,868	10,787,132	54,115,000	118,706	29,554	148,260
1982	43,023,688	10,671,312	53,695,000	117,874	29,236	147,110
1983	44,850,720	10,917,880	55,768,600	122,879	29,912	152,791
1984	45,619,370	12,972,870	58,592,240	124,643	35,445	160,088
1985	47,135,740	13,247,940	60,383,680	131,879	33,556	165,435
1986	49,042,445	12,438,835	61,481,280	134,363	34,079	168,442
1987	53,115,765	12,359,995	65,475,760	145,523	33,863	179,386
1988	55,892,940	12,162,180	68,055,120	153,222	33,230	186,452
1989	55,362,370	12,085,150	67,447,520	151,678	33,110	184,788
1990	55,467,526	12,286,320	67,753,846	151,966	33,661	185,627

(a) Does not reflect the total world offshore production since Communist Nation production figures are not available prior to 1973.

SOURCE: Offshore Production, 1970-1990: Offshore Magazine and U.S. Department of Interior
Total World Production, 1970-78: U.S. Energy Information Administration, World Natural Gas
1979-1980: Central Intelligence Agency, International Energy Statistical Review
1981-1990: British Petroleum, BP Statistcal Reveiw of World Energy

Section XI
Table 5

Estimated Worldwide Offshore Production of Natural Gas by Area

	Western Hemisphere									
Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	USSR	Total World
(Billions of cubic feet)										
1970	3,287.4	27.6	3,315.0	1,568.0	28.7	22.2	396.5	5,330.3	NA	NA
1971	3,590.9	26.8	3,617.7	214.3	NA	35.8	654.9	NA	NA	NA
1972	3,883.9	26.3	3,910.2	252.6	NA	44.6	937.1	NA	NA	NA
1973	3,976.5	28.3	4,004.8	263.4	NA	102.8	1,095.0	NA	244.6	NA
1974	4,246.5	39.9	4,286.4	259.7	NA	135.9	1,314.0	NA	264.6	NA
1975	4,164.7	54.0	4,218.7	1,396.1	114.6	132.1	1,388.1	7,249.7	282.5	7,532.2
1976	4,315.4	123.3	4,438.7	259.9	183.0	233.9	5,406.2	10,521.7	328.3	10,850.0
1977	4,496.9	134.7	4,631.6	334.0	79.9	464.6	1,707.8	7,218.0	363.5	7,581.5
1978	5,134.0	219.7	5,353.8	365.4	80.7	897.5	2,453.2	9,150.5	388.4	9,538.9
1979	5,444.9	201.5	5,646.4	362.1	182.5	759.9	2,717.4	9,668.3	423.8	10,092.1
1980	5,382.2	223.3	5,605.5	546.1	185.9	712.6	2,691.2	9,741.3	448.4	10,189.6
1981	5,546.5	495.3	6,041.8	259.2	123.7	793.5	3,082.8	10,301.0	486.2	10,787.1
1982	5,368.2	576.0	5,944.2	115.7	211.7	832.9	3,081.3	10,185.8	518.3	10,704.1
1983	4,587.8	583.6	5,162.4	529.3	304.4	1,190.6	3,181.3	10,368.0	540.9	10,908.9
1984	5,045.8	1,260.1	6,305.9	504.4	279.6	1,420.4	4,081.6	12,591.9	556.3	13,148.2
1985	4,421.4	1,252.0	5,673.8	504.4	44.9	1,416.6	4,070.5	10,710.2	538.4	11,248.6
1986	4,373.8	1,023.1	5,393.6	460.1	48.5	1,961.5	4,098.6	11,962.3	474.5	12,436.8
1987	4,819.6	1,006.8	5,826.4	497.5	48.5	1,821.0	3,611.7	11,805.1	511.0	12,316.1
1988	4,696.1	1,048.2	5,744.3	527.6	56.7	1,875.4	3,471.5	11,675.5	486.8	12,162.3
1989	4,602.9	667.6	5,270.6	548.6	52.2	2,088.9	3,635.4	11,595.7	489.5	12,085.1
1990	4,423.1	655.2	5,078.3	575.3	55.7	2,228.5	3,888.5	11,826.4	459.9	12,286.3
(Millions of cubic feet per day)										
1970	9,007	75	9,082	4,296	79	61	1,086	14,604	NA	NA
1971	9,838	73	9,911	587	NA	98	1,794	NA	NA	NA
1972	10,612	72	10,684	690	NA	122	2,560	NA	NA	NA
1973	10,894	78	10,972	722	NA	282	3,000	NA	670	NA
1974	11,634	109	11,743	711	NA	372	3,600	NA	725	NA
1975	11,410	148	11,558	3,825	314	362	3,803	19,862	774	20,636
1976	11,791	337	12,128	710	500	639	14,771	28,748	897	29,645
1977	12,320	369	12,689	915	219	1,273	4,679	19,775	996	20,771
1978	14,066	602	14,668	1,001	221	2,459	6,721	25,070	1,064	26,134
1979	14,918	552	15,470	992	500	2,082	7,445	26,489	1,161	27,650
1980	14,706	610	15,316	1,492	508	1,947	7,353	26,616	1,225	27,841
1981	15,196	1,357	16,553	710	339	2,174	8,446	28,222	1,332	29,554
1982	14,707	1,488	16,195	317	580	2,282	8,442	27,816	1,420	29,236
1983	12,569	1,599	14,168	1,450	834	3,262	8,716	28,430	1,482	29,912
1984	13,786	3,443	17,229	1,382	764	3,675	10,875	33,925	1,520	35,445
1985	12,113	3,430	15,543	1,382	123	3,881	11,152	32,081	1,475	33,556
1986	11,983	2,803	14,786	1,257	133	5,374	11,229	32,779	1,300	34,079

See notes and sources at end of table

Section XI
Table 5a

Estimated Worldwide Offshore Production of Natural Gas by Area

	Western Hemisphere									
Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	USSR	Total World
	(Millions of cubic feet per day)									
1987	13,204	2,758	15,962	1,484	133	4,989	9,895	32,463	1,400	33,863
1988	12,831	2,864	15,695	1,441	155	5,124	9,485	31,900	1,330	33,230
1989	12,611	1,829	14,440	1,503	143	5,723	9,960	31,769	1,245	33,014
1990	12,118	1,795	13,913	1,576	153	6,107	10,653	32,401	1,260	33,661

NA = Not Available

SOURCE: U.S. Production--U.S. Department of Interior, Minerals Management Service.
Rest of World--Offshore Magazine

Production and Value of United States Natural Gas
Onshore - Offshore

Year	Production (Millions of Cubic Feet) Onshore	Offshore	Total	Dollar Value at Wellhead (Thousands of Dollars) Onshore(a)	Offshore(a)	Total
Cumulative to 1953	142,838,325	91,675	142,930,000	$ --	$ --	$ --
1954	8,671,935	70,611	8,742,546	875,370	7,131	882,501
1955	9,296,219	109,132	9,405,351	967,008	11,349	978,357
1956	9,957,253	124,670	10,081,923	1,070,405	13,407	1,083,812
1957	10,527,855	152,403	10,680,258	1,184,610	17,149	1,201,759
1958	10,806,691	223,607	11,030,298	1,290,786	26,706	1,317,492
1959	11,732,065	314,050	12,046,115	1,516,214	40,586	1,556,800
1960	12,362,872	408,166	12,771,038	1,732,763	57,207	1,789,970
1961	12,802,998	451,027	13,254,025	1,928,309	67,932	1,996,241
1962	13,246,639	629,983	13,876,622	2,047,904	97,397	2,145,301
1963	13,906,600	759,959	14,666,559	2,207,391	120,639	2,328,030
1964	14,622,301	839,842	15,462,143	2,257,990	129,699	2,387,689
1965	15,108,715	931,038	16,039,753	2,349,734	144,808	2,494,542
1966	15,846,670	1,359,958	17,206,628	2,489,133	213,626	2,702,759
1967	16,472,127	1,699,198	18,171,325	2,710,170	279,571	2,989,741
1968	17,002,857	2,319,543	19,322,400	2,788,319	380,369	3,168,688
1969	17,952,811	2,745,429	20,698,240	2,997,262	458,353	3,455,615
1970	18,633,254	3,287,388	21,920,642	3,183,940	561,740	3,745,680
1971	19,352,162	3,590,850	22,943,012	3,446,063	639,419	4,085,482
1972	18,647,813	3,883,885	22,531,698	3,459,876	720,586	4,180,462
1973	18,671,095	3,976,454	22,647,549	4,034,771	859,301	4,894,072
1974	17,354,017	4,246,505	21,600,522	5,281,137	1,292,265	6,573,402
1975	15,943,934	4,164,727	20,108,661	7,092,450	1,852,612	8,945,062
1976	15,637,042	4,315,396	19,952,438	9,069,032	2,502,744	11,571,776
1977	15,528,536	4,496,927	20,025,463	12,272,078	3,553,876	15,825,954
1978	14,839,994	5,134,039	19,974,033	13,430,195	4,646,305	18,076,500
1979	15,026,356	5,444,904	20,471,260	17,699,890	6,413,744	24,113,634
1980	14,996,551	5,382,236	20,378,787	23,586,880	8,465,302	32,052,182
1981	14,631,239	5,546,462	20,177,701	28,969,884	10,981,964	39,951,848
1982	13,053,625	5,466,050	18,519,675	32,075,219	13,421,546	45,496,765
1983	12,087,301	4,734,843	16,822,144	31,358,731	12,255,638	43,614,369
1984	13,009,577	5,220,061	18,229,638	34,560,892	13,843,719	48,404,611
1985	12,566,243	4,631,756	17,197,999	31,566,479	11,616,119	43,182,598
1986	12,202,344	4,588,566	16,790,910	23,705,889	8,901,936	32,607,825
1987	12,270,401	5,078,136	17,348,537	20,432,563	8,456,067	28,888,630
1988	12,670,039	5,171,435	17,841,474	21,425,617	8,745,134	30,170,751
1989	12,826,489	5,218,010	18,044,499	21,734,136	8,841,776	30,575,912
1990	13,052,284	5,509,312	18,561,596	22,255,698	9,402,478	31,658,176

See notes and sources at end of table

Section XI
Table 6a

Production and Value of United States Natural Gas
Onshore - Offshore

(a) Total dollar value distributed in proportion to percentage of production onshore and offshore.

SOURCE: U.S. Total Production and Total Dollar Value at the Wellhead, 1953-1974: U.S. Bureau of Mines
1975-1989: U.S. Energy Information Administration, Natural Gas Annuals
U.S. Offshore Production, 1953-1974: U.S. Geological Survey
1975-1990: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

Total Offshore Wells Drilled in the United States (a)
Federal and State Leases
Alltime to January 1, 1992

	Exploratory Wells				Development Wells				Total Wells			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
Alaska												
State	19	7	58	84	278	19	34	331	297	26	93	416
Federal	1	--	28	29	1	--	3	4	2	--	31	33
Total	20	7	86	113	279	19	37	335	299	26	124	449
California												
State	20	10	139	169	3,245	22	310	3,577	3,265	32	454	3,751
Federal	25	0	166	191	394	8	22	424	419	8	188	615
Total	45	10	305	360	3,639	30	332	4,001	3,684	40	642	4,366
Oregon												
Federal	--	--	8	8	--	--	--	--	--	--	8	8
Washington												
State	--	--	2	2	--	--	--	--	--	--	2	2
Federal	--	--	4	4	--	--	--	--	--	--	4	4
Total	--	--	6	6	--	--	--	--	--	--	6	6
Pacific Coast												
Federal	2	--	39	41	16	--	1	17	18	--	40	58
Pacific Ocean												
State	39	17	199	255	3,523	41	344	3,908	3,562	58	549	4,169
Federal	28	--	245	273	411	8	26	445	439	8	271	718
Total	67	17	444	528	3,934	49	370	4,353	4,001	66	820	4,887
Florida												
State	--	--	15	15	--	--	--	--	--	--	15	15
Federal	--	--	9	9	--	--	--	--	--	--	9	9
Total	--	--	24	24	--	--	--	--	--	--	24	24
Louisiana												
State	65	113	1,016	1,194	1,940	597	868	3,405	2,006	710	1,885	4,601
Federal	212	306	3,734	4,252	6,847	4,236	4,439	15,522	7,059	4,542	8,173	19,774
Total	277	419	4,750	5,446	8,787	4,833	5,307	18,927	9,065	5,252	10,058	24,375
Texas												
State	41	213	740	994	60	164	130	354	101	377	870	1,348
Federal	11	112	1,323	1,446	67	484	682	1,233	78	596	2,005	2,679
Total	52	325	2,063	2,440	127	648	812	1,587	179	973	2,875	4,027

See notes and sources at end of table

Total Offshore Wells Drilled in the United States (a)
Federal and State Leases
Alltime to January 1, 1992

	Exploratory Wells				Development Wells				Total Wells			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
N. Gulf of Mexico												
State	1	0	0	1	1	0	0	1	2	0	0	2
Federal	10	14	387	411	94	44	102	240	104	58	489	651
Total	11	14	387	412	95	44	102	241	106	58	489	653
Mississippi												
State	0	0	1	1	0	0	0	0	0	0	1	1
Federal	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	0	0	0	0	0	0	1	1
Alabama	--	4	4	8	0	6	6	12	0	10	10	20
State	--	3	1	4	0	0	0	0	0	3	1	4
Federal	--	7	5	12	0	6	6	12	0	13	11	24
Total												
Gulf of Mexico												
State	107	330	1,776	2,213	2,001	767	1,004	3,772	2,109	1,097	2,781	5,987
Federal	233	435	5,454	6,122	7,008	4,764	5,223	16,995	7,241	5,199	10,677	23,117
Total	340	765	7,230	8,335	9,009	5,531	6,227	20,767	9,350	6,296	13,458	29,104
Atlantic Ocean												
Federal	--	--	36	36	--	--	--	--	--	--	36	36
Grand Total												
State	146	347	1,975	2,468	5,524	808	1,348	7,680	5,671	1,155	3,330	10,156
Federal	261	434	5,735	6,431	7,419	4,772	5,249	17,440	7,680	5,207	10,984	23,871
Total	407	782	7,710	8,899	12,943	5,580	6,597	25,120	13,351	6,362	14,314	34,027

(a) Offshore wells are defined as those producing from beyond natural shore lines.

SOURCE: American Petroleum Institute

Accumulated Production State and Federal Offshore Leases
Alltime to January 1, 1991

	Oil & Lease Condensate M bbls	Percent of Total	Natural Gas MMCF	Percent of Total
Alaska				
State	913,689	100%	1,635,646	100%
Federal	--	--	--	--
California				
State	2,105,143	82%	807,905	68%
Federal	500,530	19%	385,468	32%
Subtotal	2,606,673		1,193,373	
West Coast				
State	3,018,832	86%	2,443,551	86%
Federal	500,530	14%	385,468	14%
Subtotal	3,519,362		2,829,019	
Louisiana				
State	1,509,145	16%	11,235,957	12%
Federal	8,087,998	84%	79,513,706	88%
Subtotal	9,597,142		90,749,663	
Texas				
State	39,112	13%	3,629,590	22%
Federal	254,652	87%	12,845,485	78%
Subtotal	293,764		16,475,075	
Gulf of Mexico				
State	1,548,257	16%	14,865,547	14%
Federal	8,342,650	84%	92,359,191	86%
Subtotal	9,890,906		107,224,738	
Total				
State	4,567,089	34%	17,309,096	16%
Federal	8,843,180	66%	92,744,659	84%
Grand Total	13,410,269		110,053,757	

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990

Section XI
Table 9

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered Tracts	Offered Acres	Leased Tracts	Leased Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
10/13/54	La.	199	748,819	90	394,721	116,378,476	1,184,175	295	1,220
11/09/54	Tex.	38	111,789	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,995	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,530	12,875
11/04/71	La.	18	55,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	98	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	508,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	142,154	144	675,587	1,428,261,330	2,026,812	2,114	39,111
Total (1954-1974)		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

See notes and sources at end of table

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered		Leased		Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
		Tracts	Acres	Tracts	Acres				
02/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	3,566
05/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
05/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
07/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
07/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
02/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
02/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
02/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
04/13/76	Ak.	189	1,008,499	76	409,057	599,836,587	1,226,718	1,369	11,023
08/17/76	MAL(a)	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
06/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
06/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
03/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
04/25/78	La.	87	392,894	57	262,250	503,820,339	789,770	1,921	11,038
04/25/78	Tex.	56	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,302
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
02/28/79	MAL(a)	109	620,557	39	222,038	40,001,631	718,848	180	6,832
06/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
07/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
07/31/79	Tx.	42	215,770	28	136,665	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	962,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak.	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA(b)	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
09/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
05/28/81	S.Ca.	111	603,613	60	320,567	2,088,881,824	1,037,904	6,516	65,014
06/30/81(d)	Ak.	175	996,308	1	5,694	170,496	18,432	30	417
07/21/81	GOM(c)	212	1,077,913	156	799,899	2,649,628,752	2,399,736	3,312	37,444
08/04/81	So. Atl.	285	1,622,557	47	267,580	342,766,174	866,304	1,281	18,228
09/29/81	Cook In.	153	858,247	13	73,157	4,405,899	236,856	60	407
10/20/81	GOM	209	1,081,364	102	508,287	1,243,468,752	1,524,903	2,446	53,313
12/08/81	MAL	253	1,440,376	51	290,352	323,659,000	921,600	1,115	7,284
Total (1954-1981)		9,852	48,865,030	4,349	21,295,046	37,436,689,316	67,363,224	76,653	

See notes and sources at end of table

Section XI
Table 9b

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered Tracts	Offered Acres	Leased Tracts	Leased Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
02/09/82	GOM	234	1,219,826	115	590,265	1,193,654,719	1,770,795	2,022	N.A.
06/11/82	So. Ca.	140	716,840	29	147,066	117,875,281	443,913	802	N.A.
08/05/82(d)	Atl,Ca.,Ak	554	3,142,068	36	204,955	11,149,450	663,552	54	N.A.
10/13/82	Ak.	338	1,825,770	121	662,861	2,055,632,336	2,146,112	3,101	N.A.
11/17/82	GOM	144	732,570	56	281,213	609,178,223	843,657	2,166	N.A.
03/08/83	GOM	125	665,478	11	58,117	37,570,900	174,360	646	N.A.
03/15/83	Ak-NB	418	2,379,751	59	335,898	317,873,372	1,087,488	946	N.A.
04/12/83	Ak-SG	479	2,688,787	96	540,917	426,458,830	1,751,248	788	N.A.
04/26/83	MAL	4,050	22,664,991	37	210,648	68,410,240	681,984	325	N.A.
05/25/83	CGOM	7,050	37,156,426	623	3,089,812	3,367,606,134	9,269,616	1,090	N.A.
07/26/83	SAL	3,582	20,392,985	11	62,625	13,362,040	202,752	213	N.A.
08/24/83	WGOM	5,848	32,620,248	406	2,246,005	1,501,712,517	6,738,015	668	N.A.
11/30/83	S.Ca.	137	768,341	8	43,801	16,022,336	141,808	366	N.A.
01/05/84	EGOM	8,868	50,631,513	156	897,786	310,586,261	2,693,358	346	N.A.
04/17/84	Ak.Nav.	5,036	28,048,995	180	1,024,772	624,491,331	2,784,366	609	N.A.
04/24/84	CGOM	6,502	34,743,780	453	2,278,129	1,323,036,649	6,834,537	581	N.A.
07/18/84	WGOM	5,446	30,038,593	361	1,949,186	844,850,488	5,847,639	433	N.A.
08/22/84	AK-Diap.	1,419	7,773,447	231	1,230,486	871,964,327	3,910,184	709	N.A.
10/17/84	S.Ca.	657	3,147,352	23	114,363	62,121,252	347,157	543	N.A.
05/22/85	CGOM	4,531	24,006,157	409	2,076,907	1,079,377,760	6,230,829	520	N.A.
08/14/85	WGOM	4,879	27,199,074	195	1,075,188	359,175,656	3,225,597	334	N.A.
12/18/85	EGOM	6,344	35,823,478	63	359,948	100,911,298	1,079,844	280	N.A.
04/30/86	CGOM	5,837	31,382,152	101	504,806	130,276,757	1,514,442	258	N.A.
08/27/86	WGOM	4,887	27,287,951	41	229,612	56,817,990	688,839	247	N.A.
04/22/87	CGOM	5,881	31,818,471	293	1,539,626	262,971,486	4,618,941	171	N.A.
08/12/87	WGOM	5,045	27,943,606	347	1,908,183	234,275,520	5,724,597	123	N.A.
02/24/88	CGOM	51	593,971	14	142,685	15,149,327	428,058	102	N.A.
03/16/88	Beaufort	3,344	18,277,806	202	1,110,764	118,574,936	3,596,192	103	N.A.
03/30/88	CGOM	6,229	33,580,661	662	3,416,716	404,612,164	10,250,277	112	N.A.
05/25/88	Chukchi	4,694	25,631,122	350	1,976,912	478,177,948	6,400,280	242	N.A.
08/31/88	WGOM	5,053	27,911,790	255	1,412,764	130,785,464	4,238,340	89	N.A.
10/11/88	N.Aleutian	990	5,603,472	23	121,754	95,439,500	394,208	784	N.A.
11/16/88	EGOM	8,149	46,417,392	90	513,348	41,582,298	1,540,047	73	N.A.
03/15/89	CGOM	5,970	32,123,675	574	2,892,487	397,513,998	8,677,605	134	N.A.
08/23/89	WGOM	5,043	27,973,997	475	2,688,380	263,753,883	8,065,140	96	N.A.
03/21/90	CGOM	5,667	3,493,461	525	2,604,259	427,413,211	7,812,927	163	N.A.
08/22/90	WGOM	4,792	26,295,305	300	1,659,187	162,442,246	4,977,606	96	N.A.
Total (1954-1990)		149,185	785,822,639	12,363	63,723,447	57,655,721,933	195,944,139	N.A.	N.A.

(a) Middle Atlantic
(b) North Atlantic
(c) Gulf of Mexico
(d) Resale

SOURCE: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics
U.S. Minerals Management Service, Federal Offshore Statistics

Section XI
Table 10

U.S. Outer Continental Shelf Revenue and Production Value
Percentage Cumulative Revenue of Cumulative Production Value
(Thousands of Dollars)

Year All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
1953	--	--	1,359.6	30.7	967.9	2,358.2	2,358.2	5,036.9	5,036.9
1954	140,969.0	--	3,855.3	87.0	2,749.0	147,660.3	150,018.4	14,370.1	19,407.0
1955	108,528.7	--	3,406.4	122.0	5,140.0	117,197.1	267,215.5	27,060.7	46,467.6
1956	--	--	4,006.2	80.0	7,629.4	11,715.5	278,931.0	39,497.9	85,965.5
1957	--	68.6	3,270.1	110.3	11,391.2	14,840.2	293,771.3	61,072.6	147,038.1
1958	--	184.4	2,420.6	121.2	17,423.9	20,150.1	313,921.3	96,471.1	243,509.2
1959	89,747.0	171.0	2,285.7	85.0	26,540.0	118,828.7	432,750.1	150,472.5	393,981.8
1960	282,717.1	317.0	3,603.1	49.4	36,807.7	323,781.8	756,531.9	200,969.6	594,951.4
1961	--	314.1	3,073.9	37.1	46,733.7	51,345.4	807,877.3	273,636.6	868,587.8
1962	489,481.1	517.7	8,412.2	62.2	65,255.2	564,569.6	1,372,446.9	376,675.9	1,245,263.7
1963	12,807.3	668.3	8,435.2	53.0	75,373.9	98,963.0	1,471,410.2	450,866.5	1,696,130.2
1964	95,874.3	820.3	9,798.6	45.8	86,535.3	194,939.3	1,666,349.4	506,783.5	2,202,913.7
1965	33,740.3	1,072.7	8,731.4	38.5	99,656.3	146,445.4	1,812,794.8	594,222.7	2,797,136.5
1966	209,199.9	1,367.3	6,869.3	41.7	132,849.9	354,465.7	2,167,260.5	801,724.6	3,598,861.1
1967	510,109.7	1,891.5	6,208.9	41.4	153,432.4	675,859.2	2,843,119.7	947,214.7	4,546,075.8
1968	1,346,487.1	2,145.2	8,230.8	52.3	196,491.4	1,558,052.3	4,401,172.0	1,179,912.2	5,725,988.0
1969	111,660.7	1,923.6	8,312.6	41.7	235,681.8	362,029.2	4,763,201.2	1,443,870.5	7,169,858.4
1970	945,064.8	1,745.9	8,607.9	47.7	276,521.7	1,238,960.8	6,002,162.0	1,707,593.5	8,877,451.9
1971	96,304.5	1,891.0	7,742.0	32.3	340,634.9	456,012.3	6,458,174.3	2,135,677.1	11,013,129.0
1972	2,251,347.6	2,019.5	7,984.9	49.6	353,581.9	2,624,957.9	9,083,132.1	2,229,179.1	13,242,308.1
1973	3,082,462.6	2,391.2	8,948.8	52.7	389,735.8	3,494,981.4	12,578,113.6	2,486,864.9	15,729,172.9
1974	5,022,860.8	2,048.4	13,532.8	32.6	536,019.0	5,598,758.4	18,176,872.0	3,570,054.0	19,299,226.9
1975	1,088,133.2	2,085.9	17,522.0	39.5	594,725.5	1,723,325.1	19,900,196.9	3,924,914.9	23,224,141.8
1976	2,242,898.5	2,128.3	23,370.5	38.4	680,392.7	2,967,860.5	22,868,057.4	4,402,440.0	27,626,581.8
1977	1,568,564.7	1,679.0	19,830.0	21.1	890,469.8	2,509,742.3	25,377,799.7	5,774,056.[illegible]	33,400,638.3
1978	1,767,042.1	2,207.2	21,512.7	4.0	1,139,198.2	2,941,111.9	28,318,911.6	7,09[illegible]00.1	40,497,138.3
1979*	5,078,861.7	2,088.5	20,287.3	6.6	1,512,017.7	6,616,592.1	34,935,503.7	9,[illegible],278.3	49,770,416.6
1980	4,204,640.3	2,291.4	19,062.5	--	2,132,528.7	6,362,657.6	41,298,161.3	[illegible],055,515.8	62,825,932.5
1981	6,652,980.9	2,250.3	21,731.0	--	3,287,279.4	9,965,512.5	51,263,673.7	20,199,823.2	83,025,755.7
1982	3,987,490.0	2,393.8	20,055.2	--	3,814,871.6	7,824,810.6	59,088,484.3	22,573,099.1	105,598,854.8
1983	5,749,016.4	4,463.7	32,463.1	--	3,454,318.1	9,240,261.2	68,328,745.5	21,540,887.5	127,139,742.3
1984	3,928,876.3	3,458.1	35,607.8	--	3,914,724.6	7,932,123.0	70,260,868.5	24,001,446.1	151,141,188.4
1985	1,557,650.7	4,067.3	61,999.1	--	3,612,782.8	5,262,530.6	81,509,193.3	22,153,497.0	173,294,685.5
1986	187,094.7	5,176.6	52,958.2	--	2,533,376.7	2,804,890.2	84,314,083.6	15,711,161.6	189,005,847.0
1987	497,247.0	21,399.3	74,642.7	--	2,337,034.9	2,944,453.1	87,258,536.6	14,575,635.2	203,581,482.2
1988	1,259,548.7	16,822.8	62,867.8	--	2,057,756.2	3,417,841.0	90,690,583.3	12,929,511.9	216,510,994.1
1989	645,646.9	38,890.9	79,247.7	--	2,118,785.5	2,915,175.0	93,605,758.3	13,352,682.7	229,863,676.8
1990	584,301.9	19,298.2	79,339.1	--	2,630,318.1	3,367,738.8	96,973,497.1	16,916,343.0	246,780,019.8
TOTAL ALL STATES:	55,829,356.5	152,259.2	781,593.1	1,423.3	39,807,732.9	96,973,497.1	96,973,497.1	246,780,019.8	246,780,019.8

See notes and sources at end of table

U.S. Outer Continental Shelf Revenue and Production Value
Percentage Cumulative Revenue of Cumulative Production Value
(Thousands of Dollars)

Note: Revenue = charges and/or collection--bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31,1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted.
1970 bonuses increased $951,875 and rentals increased $22,500--leases on appeal validated.

SOURCE: U.S. Department of the Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Section XI
Table 11

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
10/13/54	La.	$302,924,834	$116,378,476
11/9/54	Tex.	73,801,896	23,357,029
TOTAL		376,726,730	139,735,505
7/12/55	Tex.	9,027,610	8,437,462
7/12/55	La.	314,212,441	100,091,264
TOTAL		323,240,051	108,528,726
5/26/59	Fla.	1,711,872	1,711,872
8/11/59	La.	174,411,628	88,035,120
TOTAL		176,123,500	89,746,992
2/24/60	Tex.	56,400,897	35,732,031
2/24/60	La.	518,774,752	246,909,784
TOTAL		575,175,649	282,641,815
3/13/62	La.	314,218,540	177,260,305
3/16/62	Tex.	557,720	557,720
3/16/62	La.	604,799,998	267,775,677
10/9/62	La.	66,265,290	43,887,359
TOTAL		985,841,548	489,481,061
5/14/63	Cal.	13,989,953	12,807,587
4/28/64	La.	93,850,051	60,340,626
10/1/64	Ore.	43,049,543	27,768,772
10/1/64	Wash.	10,530,210	7,764,928
TOTAL		147,429,804	95,874,326
3/29/66	La.	275,384,739	88,845,963
10/18/66	La.	185,214,816	99,164,930
12/15/66	Cal.	89,937,020	21,189,000
TOTAL		550,536,575	209,199,893
6/13/67	La.	1,627,749,269	510,079,178
2/6/68	Cal.	1,293,601,113	602,719,262
5/21/68	Tex.	1,620,393,212	593,899,046
11/19/68	La.	398,430,736	149,868,789
TOTAL		3,312,425,061	1,346,487,097
1/14/69	La.	71,036,938	44,037,339
12/16/69	La.	230,460,743	66,908,196
TOTAL		301,497,681	110,945,535
7/21/70	La.	$163,451,158	$97,769,013
12/15/70	La.	2,877,429,559	846,784,660
TOTAL		3,040,880,717	944,553,673
11/4/71	La.	172,735,981	96,304,523
9/12/72	La.	1,599,155,464	585,827,925
12/19/72	La.	6,191,018,227	1,665,519,631
TOTAL		7,962,909,672	2,347,652,057
6/19/73	Tex.-La.	6,248,160,989	1,591,397,380
12/20/73	Miss.,La,Fla.	3,404,892,969	1,491,065,231
TOTAL		9,653,053,958	3,082,462,611

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
3/28/74	La.	6,474,003,574	2,092,510,854
5/29/74	Tex.	3,354,292,556	1,471,851,831
7/30/74	La.-Tex.	88,799,354	30,236,800
10/16/74	La.	2,514,518,419	1,427,242,455
10/16/74	La. royalty	7,238,500	1,018,875
TOTAL		12,438,852,403	5,022,860,815
2/04/75	Texas	484,721,874	274,690,955
5/28/75	La.-Tex.	402,752,335	232,916,050
7/29/75	La.-Tex.	317,001,333	163,214,006
12/11/75	S. Cal.	901,960,364	417,312,141
TOTAL		2,106,435,906	1,088,133,152
2/18/76	Fl.,La.,Tx.	428,003,629	175,976,493
4/13/76	Alaska	1,732,170,868	559,836,587
8/17/76	MAL(1)	3,153,411,802	1,127,936,425
11/16/76	La.-Tx.	833,015,950	379,148,962
TOTAL		6,146,602,249	2,242,898,467
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432
10/27/77	Alaska	643,559,393	388,488,081
	(Royalty)	33,516,288	9,983,232
TOTAL		3,605,166,895	1,568,564,745
3/28/78	S. Al	150,927,700	100,743,443
4/25/78	La.-Tx.	1,559,345,259	733,656,893
10/31/78	Al. Fla.,Ms.	87,592,568	61,176,730
12/19/78	La.-Tx.	2,355,263,307	871,464,998
TOTAL		4,153,128,834	1,767,042,064
2/28/79	MAL(a)	$66,005,881	$40,001,631
6/29/79	Ca.	994,683,700	572,825,418
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022
11/27/79	La.-Tx.	4,683,195,907	1,913,337,938
12/11/79	Ak.	945,445,102	488,691,138
12/18/79	NA(b)	1,270,789,889	816,516,546
TOTAL		11,294,111,099	5,078,861,693
9/30/80	La.	7,109,464,692	2,676,927,673
10/21/80	Ak.	197,417,470	109,751,073
11/18/80	Tx.	3,500,570,271	1,417,961,511
TOTAL		10,807,452,033	4,204,640,257
5/28/81	Ca.	4,885,810,689	2,038,566,639
6/30/81(d)	Ak.	5,582,362	170,496
7/21/81	GOM(c)	5,227,548,535	2,649,628,752
8/04/81	So. Atl.	561,050,365	342,766,174
9/29/81	Co. In.	4,697,309	4,405,899
10/20/81	GOM	2,402,400,552	1,243,468,752
12/08/81	MAL	578,952,000	323,659,000
TOTAL		13,666,041,812	6,602,665,712

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
2/09/82	GOM	2,683,699,843	1,193,654,719
6/11/82	Ca.	210,486,278	117,875,281
8/05/82	Atl.,Ca.,Ak.	14,439,195	11,149,450
10/13/82	Ak.	4,589,972,518	2,055,632,336
11/17/82	GOM	1,185,091,610	609,178,223
TOTAL		8,683,689,444	3,987,490,009
3/08/83	GOM	48,755,129	37,570,900
3/15/83	Ak.	371,803,984	317,873,372
4/12/83	Ak.	547,731,283	426,458,830
4/26/83	MAL	86,822,680	68,410,240
5/25/83	GOM	4,582,847,288	3,367,606,134
7/26/83	SAL	14,562,040	13,362,040
8/24/83	GOM	2,350,359,669	1,501,712,517
11/30/83	C.Ca.	24,045,646	16,022,336
TOTAL		8,026,927,719	5,749,016,369
1/05/84	EGOM	500,261,361	310,586,261
4/17/84	Ak.Nav.	1,148,701,653	624,491,331
4/24/84	CGOM	2,126,776,904	1,323,036,649
7/18/84	WGOM	1,263,576,675	844,850,488
8/22/84	Ak-Diap.	1,365,968,674	871,964,327
10/17/84	S. Ca.	73,163,686	62,121,252
TOTAL		6,478,448,953	4,037,050,308
05/22/85	CGOM	$1,566,926,725	$1,079,377,760
08/14/85	WGOM	519,116,036	359,175,656
12/18/85	EGOM	155,241,798	100,911,298
TOTAL		2,241,284,559	1,539,464,714
04/30/86	CGOM	164,135,937	130,276,757
08/27/86	WGOM	69,498,490	56,817,990
TOTAL		233,634,427	187,094,747
04/22/87	CGOM	341,540,856	262,971,486
08/12/87	WGOM	310,835,932	234,275,520
TOTAL		652,376,788	497,247,006
02/24/88	CGOM	20,792,841	15,149,327
03/16/88	Beaufort	139,194,672	115,261,636
03/30/88	CGOM	592,797,316	388,730,457
05/25/88	Chukchi	666,232,384	478,032,631
08/31/88	WGOM	188,974,839	125,352,889
10/11/88	N.Aleutian	114,067,500	95,439,500
11/16/88	EGOM	47,559,746	37,610,898
TOTAL		1,769,619,298	1,255,577,338
03/15/89	CGOM	477,045,923	388,422,537
08/23/89	WGOM	382,977,309	257,224,333
TOTAL		860,023,232	645,646,870

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
03/21/90	CGOM	589,547,008	424,334,314
08/22/90	WGOM	240,912,740	159,967,604
TOTAL		830,459,748	584,301,918

(a) Middle Atlantic
(b) North Atlantic
(c) Gulf of Mexico
(d) Resale

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Annual Installations and Removals of Offshore Production Platforms in Federal Waters as of December 31, 1990.

Year	Alaska OCS(a)		Atlantic OCS(a)		Gulf of Mexice OCS		Pacific OCS		Year's Net Platform Additions
	Installations	Removals	Installations	Removals	Installations	Removals	Installations	Removals	
1953-60	0	0	0	0	474	7	0	0	467
1961	0	0	0	0	111	0	0	0	111
1962	0	0	0	0	123	0	0	0	123
1963	0	0	0	0	86	2	0	0	84
1964	0	0	0	0	130	0	0	0	130
1965	0	0	0	0	126	5	0	0	121
1966	0	0	0	0	116	2	0	0	114
1967	0	0	0	0	134	0	1	0	135
1968	0	0	0	0	107	1	3	0	109
1969	0	0	0	0	105	1	1	0	105
1970	0	0	0	0	124	1	0	0	123
1971	0	0	0	0	101	4	0	0	97
1972	0	0	0	0	121	6	0	0	115
1973	0	0	0	0	98	1	0	0	97
1974	0	0	0	0	52	18	0	0	34
1975	0	0	0	0	100	32	0	0	68
1976	0	0	0	0	111	31	1	0	81
1977	0	0	0	0	116	15	1	0	102
1978	0	0	0	0	164	25	0	0	139
1979	0	0	0	0	159	43	2	0	118
1980	0	0	0	0	169	32	3	0	140
1981	0	0	0	0	171	24	2	0	149
1982	0	0	0	0	192	21	0	0	171
1983	0	0	0	0	177	36	1	0	142
1984	0	0	0	0	229	47	1	0	183
1985	0	0	0	0	214	68	3	0	149
1986	0	0	0	0	109	33	1	0	77
1987	0	0	0	0	119	24	1	0	96
1988	0	0	0	0	178	102	0	0	76
1989	0	0	0	0	188	100	2	0	90
1990	0	0	0	0	174	107	0	0	67
Total	0	0	0	0	4,578	788	23	0	3,813

(a) There is no production in the Federal Waters offshore of Alaska or on the Atlantic OCS.

NOTE: Gulf of Mexico OCS platform data includes accounting adjustments for 1983, 1984, and 1985. The removal figures reflect earlier transfers of 5 Federal wells from Federal to State jurisdiction and the conversion of 3 from production to service use. The 1985 installation total includes 47 platforms counted during audits completed in 1985.

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

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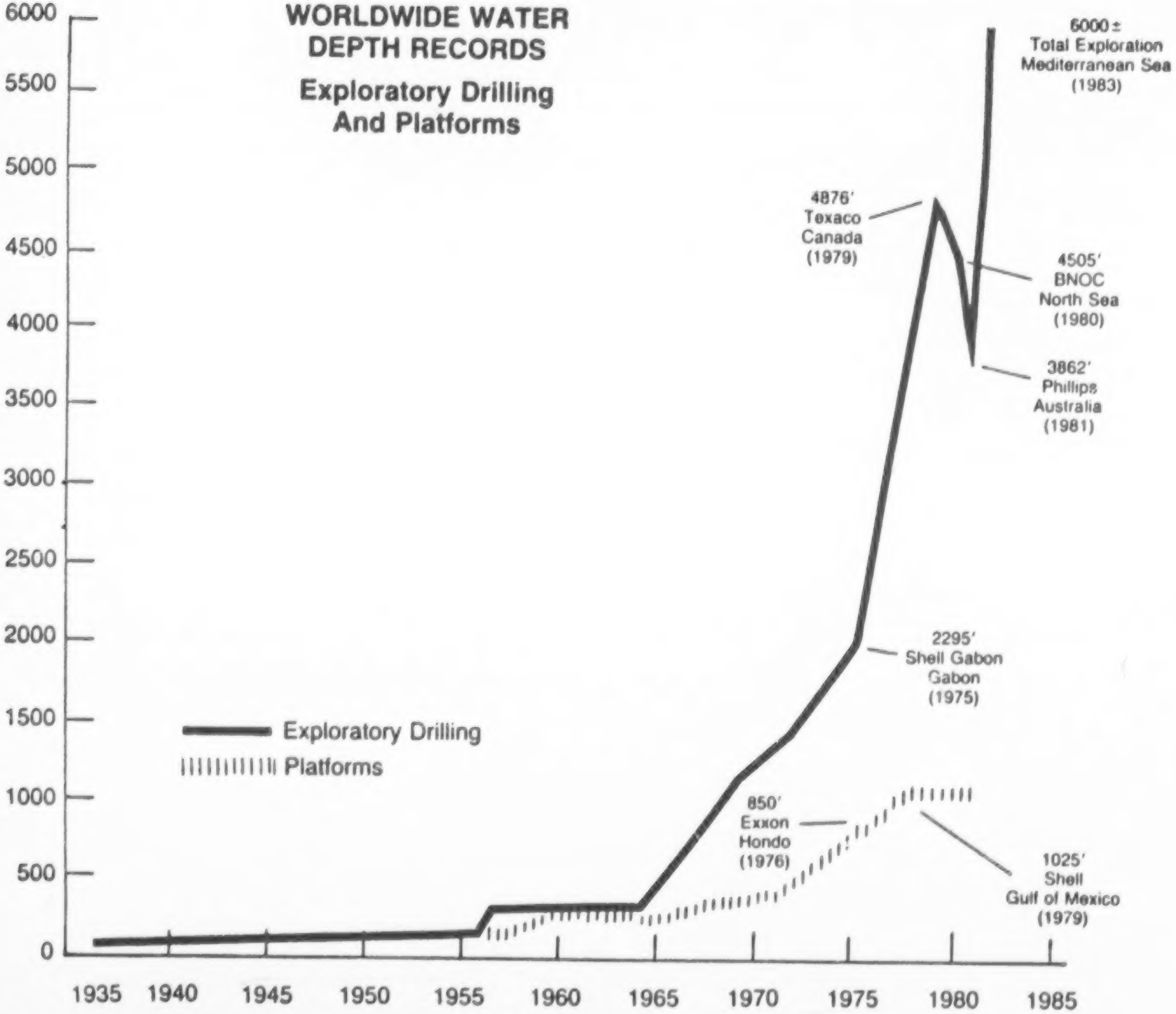
Table 13



SOURCE: Offshore Magazine, June 20, 1982

Blowouts and Spillage from Federal Offshore Oil Wells Compared to Annual Production on the OCS, 1971-1990

Year	No. of Well Starts	Drilling Blowouts				Nondrilling Blowouts						Total No. of Blowout	Spills in Barrels	Production MMbbls.
		Exploration		Development		Production		Workover		Completion				
		No.	Bbl	No.	Bbl	No.	Bbl	No.	Bbl	No.	Bbl			
1971	851	2	0	0	0	2	450	1	0	0	0	5	450	418.5
1972	845	2	0	1	0	0	0	0	0	0	0	3	0	411.9
1973	820	2	0	1	0	0	0	0	0	0	0	3	0	394.7
1974	802	0	0	1	0	2	75	1	200	0	0	4	275	360.6
1975	842	4	0	0	0	0	0	1	0	1	0	6	0	330.2
1976	1,078	1	0	4	0	1	0	0	0	0	0	6	0	316.9
1977	1,240	2	0	2	0	0	0	3	0	2	0	9	0	303.9
1978	1,164	4	0	5	0	0	0	2	0	1	0	12	0	292.3
1979	1,140	3	0	2	0	0	0	0	0	0	0	5	0	285.6
1980	1,158	3	0	1	0	1	1	2	0	1	0	8	1	277.4
1981	1,208	2	0	1	0	0	0	2	64	5	0	10	64	289.8
1982	1,255	0	0	4	0	0	0	3	0	1	0	8	0	321.2
1983	1,180	3	0	4	0	0	0	1	0	1	0	9	0	348.3
1984	1,352	3	0	2	10	0	0	1	0	0	0	6	10	370.2
1985	1,169	2	0	0	0	1	40	1	0	0	0	4	40	389.3
1986	694	1	0	0	0	0	0	1	0	0	0	2	0	389.2
1987	845	3	0	1	60	3	0	1	0	0	0	8	60	366.1
1988	950	0	0	1	0	0	0	0	0	0	0	1	0	320.7
1989	947	2	0	3	0	0	0	2	0	0	0	7	0	305.1
1990	1,018	1	0	1	0	0	0	2	8	0	0	1	8	324.4
Total	20,558	40	0	34	70	10	566	24	272	12	0	120	908	6,816.3

Note: Only crude oil and condensate blowout spillage is given here, in barrels for the 100 blowouts that occurred during the past 16 years. Production totals are given in millions of barrels (MMbbl). Information on other than oil and condensate spills may be obtained from the Chief, Offshore Rules and Operations Division, MMS, Reston, Virginia 22091.

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

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Table 15

Pollution Spills and Seeps of one Barrel or More From Offshore Wells on Federal Leases(a)
1970-1990

Year	Gulf of Mexico: No. Spills	Gulf of Mexico: Bbls. Spilled	Pacific: No. Spills	Pacific Bbls. Spilled(b)
1970	7	83,823	0	--
1971	10	1,110	0	--
1972	2	181	0	10,325
1973	3	21,935	0	1,825
1974	8	23,973	0	1,460
1975	0	0	0	1,460
1976	60	4,740	0	1,458
1977	60	919	0	1,458
1978	62	1,382	0	1,456
1979	94	536	0	1,456
1980	42	1,775	1	1,458
1981	50	5,503	6	1,488
1982	42	124	3	1,464
1983	59	520	3	916
1984	47	224	5	770
1985	38	581	3	374
1986	37	234	2	376
1987	20	283	2	376
1988	32	15,285	1	2
1989	25	476	3	8
1990	37	14,728	1	100

(a) Beginning with 1988 totals are for all spills, previous years (1970-1987) are crude and condensate spills only.
(b) This column shows estimated seepage from the Santa Barbara blowout of January 28,1969. Seepage following the blowout has been variously estimated at 10,000 to 71,500 barrels, but totals above do not include the first 10 days. The figure for 1972 includes seepage between February 7, 1969 and December 31,1972

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Historical Data on Leasing
Continental Seabeds Adjacent to the United States
(Thousands of Square Statute Miles)

Region	State Lands(a)	OCS "Shelf"(b)	Continental Slope(c)	Total OCS
Hawaii	--	0.4 (d)	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5 559,040,000 Ac.	478.7 306,368,000 Ac.	1,352.2 865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
Total Federal OCS Acreage Ever Offered for Lease Through 8/22/84	329,472,769	58.9	38.1
Total Federal OCS Leased Through 8/22/84	37,147,323	6.6	4.3
Total Federal OCS Currently Under Lease 12/31/83(e)	18,500,000	3.3	2.1

(a) Areas within three nautical miles of coastline, except for Texas and Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.
(b) Between state limit and 200 meter depth
(c) Between 200 and 2,500 meter depths
(d) Includes state areas.
(e) Approximate acreage figure is used because of constant company relinquishments of leases--approximately 200 leases relinquished each year.

Source: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

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Table 17

Federal Offshore Planning Areas Ranked by January 1, 1990 Revised Conditional Mean Estimates of Undiscovered, Economically Recoverable Resources

PRESTO(a) Ranking of OCS Areas	Estimated Acres in Millions	Marg. Prob. of H(b)	Oil in Barrels	Gas in Tcf	Risked Estimates in Bbls of Oil Equivalent
1. Central Gulf of Mexico	48	1.00	3.82	37.66	10.52
2. Western Gulf of Mexico	36	1.00	1.58	25.40	6.10
3. Southern California	30	1.00	1.31	3.01	1.84
4. Chukchi Sea, AK(c)	30	0.23	5.96	0.00	1.36
5. Eastern Gulf of Mexico	76	1.00	0.95	1.68	1.25
6. Northern California	29	0.78	0.89	2.45	1.03
7. Central California	15	0.90	0.50	0.82	0.58
8. Mid-Atlantic	82	0.44	0.22	5.35	0.52
9. Beaufort Sea, AK(c)	52	0.23	1.66	0.00	0.38
10. South Atlantic	106	0.23	0.21	4.60	0.24
11. North Atlantic	51	0.39	0.11	2.54	0.22
12. Washington-Oregon	48	0.25	0.19	1.97	0.14
13. Straits of Florida	11	0.19	0.34	0.57	0.08
14. Navarin Basin, AK(c)	37	0.03	1.14	0.00	0.03
15. Gulf of Alaska(c)	132	0.04	0.98	0.00	0.04
16. St. George Basin, AK(c)	70	0.02	0.39	0.00	0.01
17. N. Aleutian Basin, AK(c)	33	0.02	0.61	0.00	0.01
18. Kodiak, AK(c)	89	0.03	0.43	0.00	0.01
19. Norton Basin, AK(c)	25	<0.01	0.58	0.00	neg.
20. Cook Inlet, AK(c)	5	<0.01	0.17	0.00	neg.
21. Hope Basin, AK(c)	12	<0.01	0.50	0.00	neg.
22. Shumagin, AK(c)	83	0.01	0.28	0.00	neg.
23. Aleutian Arc, AK(c)	161	neg.	neg.	neg.	neg.
24. Aleutian Basin, AK(c)	47	neg.	neg.	neg.	neg.
25. Bowers Basin, AK(c)	90	neg.	neg.	neg.	neg.
26. St. Mathew-Hall, AK(c)	54	neg.	neg.	neg.	neg.

(a) Probalistic Resource Estimates Offshore

(b) Marginal probability of hydrocarbons (H), given here as a decimal fraction of 1.00 as the certainty, expresses the chance of occurrence of oil and gas in commercial volumes, using existing technology and under current economic conditions.

(c) Gas in Alaska was assumed to be noneconomic as of 1/1/90. The conditional estimates represent the possible range of undiscovered resources present given the conditions that hydrocarbons exist in the area of study. Risked resources incorporate the probability that an area is devoid of commercial hydrocarbons. Oil is given in billions of barrels and gas in trillions of cubic feet. Conditional gas estimates are converted to energy equivalent barrels of oil BOE value which is added to the liquid volume for a total BOE figure. The conditional mean is multiplied by the marginal probability to yield the risked total in billions of BOE. Areas considered to have little or no potential for commercial development are designated as negligible (neg.).

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990

United States Offshore Crude Oil Production by State
(Thousands of Barrels)

Year	Alaska		California		Louisiana		Texas		Total U.S.	
	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
1965	31.9	0	42,772.0	0	53,253.0	144,964.9	553.0	3.7	96,609.9	144,968.6
1966	2,652.7	0	53,294.0	0	56,697.4	187,831.5	367.6	882.6	113,011.7	188,714.1
1967	15,933.0	0	64,807.0	0	65,040.2	218,995.8	280.1	2,865.8	146,060.3	221,861.6
1968	52,524.6	0	83,279.0	2,059.9	66,648.9	263,825.4	536.0	3,110.6	202,988.5	268,995.9
1969	60,887.0	0	89,061.0	9,940.8	67,250.7	300,159.3	223.7	2,759.9	217,422.4	312,860.0
1970	70,472.0	0	79,504.2	24,987.6	72,063.2	333,411.5	779.5	2,247.0	222,818.9	360,646.2
1971	66,793.3	0	70,819.0	31,103.5	69,061.4	385,760.4	474.0	1,685.0	207,147.7	418,548.9
1972	64,336.6	0	73,168.5	22,562.2	71,184.6	387,590.7	739.8	1,733.0	209,429.4	411,885.9
1973	62,427.3	0	70,582.6	18,915.3	54,957.7	374,196.9	667.6	1,617.8	188,635.1	394,730.0
1974	60,630.2	0	67,206.8	16,776.7	46,688.6	342,435.5	578.1	1,381.8	175,103.7	360,594.1
1975	60,709.2	0	64,274.0	15,304.8	40,962.3	313,592.6	353.8	1,340.1	166,299.3	330,237.5
1976	55,190.9	0	56,646.1	13,978.6	38,358.2	301,887.0	708.5	1,054.6	150,903.6	316,920.1
1977	50,575.7	0	48,223.9	12,267.6	33,804.7	290,771.6	2,620.3	909.0	135,224.6	303,948.2
1978	45,712.5	0	43,524.6	12,085.9	32,365.5	278,071.5	2,457.6	2,107.6	124,060.2	292,265.0
1979	38,922.7	0	42,202.6	10,961.1	29,359.9	271,008.9	2,544.1	3,595.5	113,029.3	285,565.5
1980	32,726.5	0	39,978.9	10,198.9	27,591.9	256,688.1	1,962.6	10,502.0	102,259.9	277,389.0
1981	28,447.1	0	39,164.7	19,605.0	26,219.7	255,875.7	1,823.8	14,284.7	95,655.2	289,765.4
1982	24,680.9	0	39,810.6	28,434.2	24,825.6	275,513.5	1,754.3	17,263.8	91,071.4	321,211.5
1983	21,911.9	0	37,702.6	30,527.5	24,314.5	298,093.6	2,286.5	19,710.2	86,215.5	348,331.2
1984	19,631.0	0	39,508.3	30,254.3	26,852.7	318,024.6	2,100.6	21,960.1	88,092.8	370,239.0
1985	12,644.2	0	39,588.8	29,781.5	23,747.8	338,901.9	2,175.6	20,641.0	78,156.5	389,324.3
1986	15,349.2	0	34,697.5	29,227.8	25,719.9	340,152.3	2,091.5	19,835.9	77,858.1	389,216.0
1987	13,941.7	0	30,360.4	33,556.7	24,901.8	307,950.9	1,788.8	24,634.1	70,992.7	366,141.7
1988	13,429.4	0	28,202.9	32,615.1	24,083.9	261,936.5	1,499.6	26,115.8	67,215.8	320,667.4
1989	13,269.9	0	25,397.0	33,072.2	22,563.1	246,207.7	1,618.3	25,887.8	62,848.3	305,167.7
1990	9,069.9	0	23,559.1	33,312.8	22,829.5	264,670.6	1,768.8	26,439.9	57,227.4	324,423.2

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics, 1990.

United States Offshore Dry Natural Gas Production by State(a)
(Millions of Cubic Feet)

	Alaska		California		Louisiana		Texas		Total U.S.	
Year	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
1965	10.9	0	40,770.0	0	217,148.0	645,589.5	27,520.0	0	285,449.0	645,589.5
1966	1,200.1	0	46,839.0	0	282,848.8	965,387.8	21,623.0	42,059.4	352,510.9	1,007,447.2
1967	9,046.3	0	46,732.0	0	395,359.1	1,087,262.8	60,844.6	99,952.9	511,981.9	1,187,215.8
1968	25,806.8	0	85,765.0	799.7	493,015.1	1,413,467.6	190,778.3	109,910.8	795,365.1	1,524,178.1
1969	43,243.5	0	79,058.0	4,845.9	557,680.7	1,822,544.1	110,959.5	127,097.0	790,941.7	1,954,487.0
1970	83,139.5	0	58,892.2	12,229.1	595,318.6	2,273,147.0	131,360.8	133,300.4	868,711.1	2,418,676.6
1971	86,326.3	0	45,776.3	15,671.5	573,461.1	2,634,014.0	108,242.1	127,357.9	813,806.1	2,777,043.4
1972	76,818.6	0	34,747.1	10,033.6	603,638.1	2,881,364.7	130,126.0	147,156.5	845,329.9	3,038,554.8
1973	74,655.1	0	30,596.3	7,286.5	557,250.2	3,055,628.2	102,364.3	148,673.6	764,866.0	3,211,588.4
1974	74,672.5	0	28,931.1	5,573.6	518,580.6	3,349,170.9	109,597.3	159,979.4	731,781.5	3,514,723.9
1975	76,294.5	0	23,320.0	3,951.6	508,462.0	3,332,169.1	97,957.2	122,572.8	706,033.8	3,458,693.5
1976	74,142.8	0	18,983.9	3,475.2	512,934.9	3,499,865.9	113,411.0	92,582.4	719,472.6	3,595,923.5
1977	77,539.5	0	14,237.2	3,290.0	486,096.2	3,647,513.7	181,306.7	86,943.3	759,179.6	3,737,746.9
1978	74,910.5	0	14,196.1	3,472.3	489,728.7	4,149,731.1	170,142.6	231,857.5	748,977.9	4,385,060.9
1979	73,792.4	0	13,550.3	2,866.8	476,965.2	4,158,521.7	207,617.3	511,590.6	771,925.2	4,672,979.1
1980	64,543.2	0	13,074.7	3,107.0	408,784.2	4,013,707.4	254,377.2	624,642.5	740,779.3	4,641,457.0
1981	72,307.3	0	13,470.7	12,766.3	374,439.8	4,106,494.6	236,707.2	730,275.8	696,924.9	4,849,536.7
1982	68,392.5	0	14,007.2	17,750.9	359,349.3	3,803,740.1	246,966.9	858,020.3	688,715.9	4,679,511.3
1983	68,836.8	0	13,853.3	16,024.3	316,254.0	3,173,892.4	148,134.3	850,817.2	547,078.3	4,040,733.9
1984	68,688.2	0	13,836.6	27,806.9	313,362.3	3,578,740.6	112,090.6	931,293.6	507,977.7	4,537,841.1
1985	62,796.0	0	19,483.1	49,164.2	229,971.7	3,116,884.5	108,130.7	834,926.5	420,381.5	4,000,975.2
1986	63,351.0	0	18,252.9	42,689.0	228,128.9	2,927,832.3	115,126.3	978,370.6	424,859.1	3,948,891.8
1987	61,233.3	0	13,004.6	40,986.2	221,170.4	3,180,107.2	98,586.1	1,204,488.3	393,994.4	4,425,581.7
1988	66,970.8	0	10,715.2	34,570.6	210,430.8	3,096,881.6	98,077.5	1,178,422.6	386,194.3	4,309,874.8
1989	82,115.8	0	9,028.4	28,574.9	200,000.8	3,006,576.1	111,506.5	1,165,113.0	402,651.5	4,200,263.9
1990	104,812.2	0	8,005.0	38,531.8	178,663.0	3,706,324.0	108,995.5	1,348,075.4	400,475.7	5,092,931.2

(a) Includes casinghead gas.

SOURCE: U.S. Department of Interior, Mineral Management Service, Federal Offshore Statistics, 1990.

BASIC PETROLEUM DATA BOOK

SECTION XII. TRANSPORTATION

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United States Gas Utility Industry
Miles of Pipeline and Main, by Type(a)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1947	27.1	92.9	211.5	331.4
1948	29.2	97.0	220.1	346.4
1949	30.9	102.9	230.3	364.1
1950	32.9	113.1	241.6	387.5
1951	34.7	120.5	252.5	407.7
1952	38.4	123.4	263.5	425.3
1953	41.5	130.4	274.5	446.4
1954	43.8	139.0	287.7	470.5
1955	45.7	145.9	305.1	496.7
1956	47.6	153.8	323.8	525.2
1957	50.0	160.1	338.7	548.8
1958	52.0	165.4	354.1	571.5
1959 (b)	54.1	174.3	371.4	599.8
1960 (c)	55.8	183.7	391.4	630.9
1961	56.7	191.9	410.4	659.0
1962	58.7	196.4	428.1	683.2
1963	60.7	200.9	448.3	709.9
1964	61.0	205.4	469.8	736.2
1965	61.7	211.3	494.5	767.5
1966	63.0	217.0	519.6	799.6
1967	63.7	225.4	539.2	828.3
1968	64.4	234.5	562.7	861.6
1969	64.9	248.1	578.6	891.6
1970	66.3	252.2	594.8	913.3
1971	66.2	254.8	610.4	931.4
1972	66.9	258.1	623.1	948.1
1973	65.9	263.1	633.8	962.9
1974	66.4	262.2	645.6	974.1
1975	68.5	262.6	648.2	979.3
1976	70.3	258.2	659.1	987.7
1977	71.5	260.5	666.9	998.9
1978	74.9	260.6	677.5	1,013.0
1979	77.8	263.5	688.5	1,029.8
1980	83.5	266.5	701.8	1,051.8
1981	86.2	269.5	714.1	1,069.8
1982	90.5	271.7	721.2	1,083.4
1983	91.9	273.5	729.7	1,095.1
1984	93.7	271.9	736.8	1,102.4
1985	94.3	271.2	753.4	1,118.7
1986	93.8	271.0	769.3	1,134.1
1987	93.6	273.8	783.8	1,151.2
1988	92.3	275.4	801.3	1,169.0

See notes and sources at end of table

United States Gas Utility Industry
Miles of Pipeline and Main, by Type(a)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1989	90.6	276.3	818.1	1,185.0
1990	89.5	280.1	836.7	1,206.3

(a) Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.
(b) These figures and those for subsequent years include Hawaii.
(c) These figures and those for subsequent years include Alaska.

SOURCE: American Gas Association, Gas Facts

Total Crude Oil and Petroleum Products Transported in the U.S. by Method of Transportation (in Billions of Ton Miles)

Year	Pipelines Ton Miles	Pipelines Percent of Total	Water Carriers Ton Miles	Water Carriers Percent of Total	Motor Carriers(a) Ton Miles	Motor Carriers(a) Percent of Total	Railroads Ton Miles	Railroads Percent of Total	Total Crude and Products Ton Miles
1972	475.8	56.7	330.0	39.3	23.0	2.7	10.0	1.2	838.8
1973	507.0	60.1	296.8	35.1	25.0	3.0	14.8	1.8	843.6
1974	506.0	59.7	297.0	35.0	29.0	3.4	15.7	1.9	847.7
1975	507.0	59.9	298.0	35.2	27.6	3.3	14.1	1.7	846.7
1976	515.0	59.4	306.9	35.4	32.5	3.8	13.3	1.5	867.7
1977	546.0	59.1	333.3	36.1	29.6	3.2	14.5	1.6	923.4
1978	585.8	50.5	530.6	45.7	30.6	2.7	13.2	1.1	1,160.2
1979	608.3	51.8	522.9	44.5	30.1	2.6	13.5	1.2	1,174.8
1980	588.2	47.2	617.8	49.6	26.8	2.2	12.5	1.0	1,245.3
1981	563.7	46.3	617.2	50.7	24.9	2.0	12.6	1.0	1,218.4
1982	565.7	46.4	616.9	50.6	22.7	1.9	12.9	1.1	1,218.2
1983	556.1	45.5	630.5	51.5	25.1	2.1	11.8	1.0	1,223.5
1984	568.1	48.1	570.7	48.4	29.2	2.5	12.2	1.0	1,180.2
1985	564.3	47.2	590.4	49.4	28.7	2.4	12.1	1.0	1,195.5
1986	577.9	48.7	568.1	47.8	29.7	2.5	12.1	1.0	1,187.8
1987	586.8	49.1	566.5	47.4	30.4	2.5	12.1	1.0	1,195.8
1988	601.1	50.6	543.7	45.8	30.5	2.6	12.8	1.1	1,188.1
1989	584.2	53.4	466.2	42.6	30.4	2.8	13.4	1.2	1,094.2
1990	577.1	53.7	454.5	42.3	29.8	2.8	13.8	1.3	1,075.2

(a) Estimate.

SOURCE: 1972-1989: Association of Oil Pipelines, Shifts in Petroleum Transportation
1990: Eno Foundation for Transportation, Transportation in America, June 1991

Section XII
Table 3

United States Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
(Ocean-going vessels of 2000 gross tons and over)

Year (a)		Actual Fleet				
		Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan.1,	1947	951	8,784,894	14,035,000	13.9	800.5
Oct.1	1947	744	6,995,223	11,171,400	14.1	646.4
April 1	1948	621	5,878,786	9,395,500	14.0	541.9
Jan.1,	1949	593	5,656,497	9,016,200	14.1	524.2
Sept. 1	1949	578	5,439,009	8,639,800	14.4	513.2
Sept. 1	1950	559	5,322,698	8,460,700	14.5	505.1
April 1	1951	560	5,363,699	8,520,800	14.6	510.0
Oct.1,	1952	550	5,284,400	8,446,400	14.6	508.3
	1953	550	5,475,800	8,639,800	14.8	525.3
	1954	525	5,376,500	8,446,200	15.0	521.7
	1955	490	5,094,900	7,989,500	15.1	497.4
	1956	477	5,040,700	7,892,700	15.2	493.4
	1957	470	5,097,400	7,959,900	15.4	503.1
	1958	474	5,316,100	8,309,200	15.5	529.5
	1959	485	5,593,600	8,766,300	15.6	563.0
	1960	478	5,664,000	8,894,600	15.7	575.0
	1961	469	5,751,400	9,085,300	15.8	590.1
	1962	456	5,726,900	9,045,300	15.9	589.8
	1963	440	5,631,000	8,912,600	15.9	583.5
	1964	422	5,553,400	8,816,300	16.0	579.3
	1965	410	5,479,800	8,733,500	16.0	575.8
	1966	387	5,343,700	8,549,900	16.1	566.3
	1967	382	5,322,800	8,550,700	16.1	566.4
	1968	380	5,337,300	8,655,700	16.1	574.6
	1969	365	5,319,400	8,797,900	16.1	584.9
	1970	350	5,305,800	8,911,000	16.2	593.4
	1971	347	5,453,100	9,218,200	16.3	616.5
	1972	328	5,411,300	9,253,300	16.4	621.0
	1973	312	5,507,000	9,525,200	16.3	640.3
	1974	306	5,798,068	10,236,221	16.4	790.0
	1975	293	5,943,289	10,601,370	16.4	714.5
	1976	290	6,357,974	11,565,138	16.4	779.3
	1977	254	6,486,000	11,950,200	16.0	NA
	1978	271	7,449,900	13,589,200	16.0	NA
	1979	313	9,061,313	16,559,318	16.3	NA
	1980	269	7,621,000	14,720,000	16.3	NA
	1981	274	7,837,000	15,153,800	16.5	NA
	1982	269	7,792,100	15,100,300	15.6	NA
	1983	287	8,989,600	16,462,400	16.0	NA
	1984	286	8,963,600	16,445,700	15.7	NA
	1985	252	8,442,700	15,542,100	16.0	NA

See notes and sources at end of table

Section XII
Table 3a

United States Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
(Ocean-going vessels of 2000 gross tons and over)

	Actual Fleet				
Year (a)	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1987	247	8,381,700	15,452,600	15.8	NA
1988	254	9,174,300	16,876,900	15.8	NA
1989	247	9,004,800	16,708,300	15.3	NA

(a) From 1953 to 1985, figures as of December 31; 1987 to 1989 figures as of January 1; other figures as of date indicated.

SOURCE: 1947-1973: Sun Company, Analysis of World Tank Ship Fleet.
1974-1976: Sun Shipbuilding and Dry Dock Company.
1977-1985: U.S. Department of Transportation, Maritime Administration (Report E2-17).
1987-1989: U.S. Department of Transportation, Maritime Administration, Tankers in the World Fleet

Age Distribution of the United States Tanker Fleet
(Ocean-going vessels of 1000 gross tons and over)

Year of Construction	Number	Gross Tons(a)	Deadweight Tons(a)	Average Speed (knots)	Average Draft (feet)
Before 1955	26	408.9	730.4	14.4	30.8
1955	2	85.1	190.8	12.5	37.0
1956	5	81.3	144.9	16.2	31.2
1957	12	203.3	346.2	16.3	33.6
1958	9	182.4	302.6	16.7	35.1
1959	8	157.0	259.5	16.8	35.5
1960	5	112.9	212.4	17.0	38.2
1961	4	116.7	196.4	16.5	39.8
1962	1	20.0	34.1	15.0	36.0
1963	4	88.3	150.7	16.3	35.8
1964	6	146.1	281.6	16.7	38.8
1965	2	48.6	94.4	16.5	35.5
1966	2	58.9	116.2	16.0	39.5
1967	0	0.0	0.0	0.0	0.0
1968	4	82.6	148.3	17.5	38.8
1969	8	189.8	383.4	16.5	38.4
1970	8	220.7	456.6	15.5	40.4
1971	6	178.7	358.1	16.0	41.2
1972	7	216.2	429.3	15.7	41.0
1973	5	277.6	596.5	16.0	51.4
1974	10	466.8	939.4	16.1	47.4
1975	13	408.0	803.2	15.8	40.4
1976	11	476.6	1,004.6	15.2	43.9
1977	17	1,018.5	1,886.4	16.0	46.2
1978	13	869.9	1,397.3	17.8	46.2
1979	13	1,221.3	2,201.6	17.3	53.2
1980	6	349.2	455.8	17.2	42.3
1981	13	379.8	655.4	15.0	35.6
1982	7	255.1	549.9	13.7	41.1
1983	7	268.7	560.7	15.1	44.6
1984	5	126.2	234.8	15.6	35.0
1985	4	61.1	95.6	14.8	30.5
1986	3	133.5	279.7	16.0	44.7
1987	1	95.0	211.5	16.0	65.0
Total	247	9,004.8	16,708.3	15.3	37.6

(a) Tonnage in thousands.

SOURCE: Department of Transportation, Maritime Administration, Tankers in the World Fleet as of January 1, 1989.

Section XII
Table 5

Tankers in the World Fleet by Major Flag of Registry(a)
(As of January 1, 1989)

Country of Registry	Total		General Tankers		Special Tankers		Chemical Tankers		LNG Tankers		LPG Tankers	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Argentina	50	1,032.6	44	994.8	0	0.0	2	10.2	0	0.0	4	27.6
Brazil	95	3,995.3	68	3,659.4	0	0.0	15	264.9	0	0.0	12	71.0
China	166	2,699.6	154	2,541.7	2	10.8	10	147.1	0	0.0	0	0.0
Cyprus	125	10,516.0	92	9,980.9	3	24.5	26	499.8	0	0.0	4	10.8
France	59	4,107.0	37	3,846.6	6	20.3	9	52.6	2	87.4	5	100.1
Germany	54	737.7	10	229.2	1	3.2	27	330.8	0	0.0	16	174.5
Greece	205	15,357.6	177	14,824.6	2	9.7	17	453.9	0	0.0	9	69.4
Italy	223	5,035.5	133	4,451.1	5	12.5	53	365.1	3	51.3	29	155.5
Japan	314	15,664.2	234	14,149.3	0	0.0	31	214.2	10	608.6	39	692.1
Korea	67	1,726.8	42	1,569.4	0	0.0	16	66.6	0	0.0	9	90.8
Liberia	602	57,064.8	435	52,343.5	1	29.5	119	3,227.3	4	202.2	43	1,262.3
Nassau Bahamas	133	10,415.1	95	9,793.2	0	0.0	32	457.7	1	88.2	5	76.0
Norway	207	13,761.2	90	10,757.8	1	2.5	64	1,654.6	0	0.0	52	1,346.3
Panama	628	22,973.8	283	19,751.0	6	48.1	247	2,609.7	0	0.0	92	565.0
Singapore	127	5,161.0	95	4,630.1	1	7.0	10	222.7	0	0.0	21	301.2
Spain	87	3,614.2	49	3,316.8	0	0.0	23	230.7	1	24.9	14	41.8
Sweden	59	509.9	26	188.7	0	0.0	32	250.4	1	70.8	0	0.0
Turkey	52	1,383.0	33	1,304.0	1	15.8	16	58.5	0	0.0	2	4.7
U.S.S.R	444	7,269.6	416	6,759.5	7	86.5	10	225.3	0	0.0	11	198.3
United Kingdom(b)	198	14,328.0	125	12,848.7	2	8.3	39	316.6	10	434.3	22	720.1
United States	247	16,708.3	209	14,872.0	12	487.0	8	200.8	13	936.4	5	212.1
All Others	1,108	40,734.5	771	35,259.4	25	141.2	214	3,544.9	11	710.8	87	1,078.2
Total	5,250	254,795.7	3,618	228,071.7	75	906.9	1,020	15,404.4	56	3,214.9	481	7,197.8

(a) Ocean-going vessels 1000 gross tons and over.
(b) Including British Colonies

SOURCE: Department of Transportation, Maritime Administration, Tankers in the World Fleet As of January 1,1989

Sources of Spills of Oil and other Substances (Gallons)

1983

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships....................	276	145,778	14	64,729	20	4,250	310	214,757
Tank Barges..................	561	1,798,055	17	8,717	18	69,081	596	1,875,853
Dry Cargo Barges.............	13	1,273	0	-	3	97	16	1,370
Dry Cargo Ships..............	204	102,379	0	-	9	171	213	102,550
Combatants...................	245	26,265	1	30	6	353	252	26,648
Other........................	1,131	248,348	4	145	44	797	1,179	249,290
TOTAL.....................	2,430	2,322,098	36	73,621	100	74,749	2,566	2,470,468
LAND VEHICLES								
Rail.........................	29	28,284	2	1,015	2	500	33	29,799
Highway......................	319	155,021	19	17,457	32	18,200	370	190,678
Other........................	129	72,463	7	33,695	8	6,326	144	112,484
TOTAL.....................	477	255,768	28	52,167	42	25,026	547	332,961
NON-TRANSPORT, ON/OFFSHORE								
Refinery.....................	72	35,657	10	137,627	8	1,740	90	175,024
Bulk Storage.................	251	292,480	7	1,960	5	5,670	263	300,110
Onshore Production..........	134	606,393	0	-	6	169,265	140	775,658
Offshore Production..........	1,184	112,491	11	164	22	568	1,217	113,223
Other........................	242	47,477	51	521,687	48	5,538,276	341	6,107,440
TOTAL.....................	1,883	1,094,498	79	661,438	89	5,715,519	2,051	7,471,455
PIPELINES......................	166	33,963	2	2	2	0	170	33,965
MARINE FAC. ON/OFFSHORE								
Fuel Transfer................	24	4,446	0	-	0	0	24	4,446
Bulk Transfer................	156	78,024	7	1,672	6	116	169	79,812
Non-Bulk Transfer............	3	401	0	-	0	0	3	401
Other........................	91	81,290	8	182	18	41,658	117	123,130
TOTAL.....................	274	164,161	15	1,854	24	41,774	313	207,789
LAND FACILITIES..............	47	13,933	5	1,166	9	3,624	61	18,723
MISC/UNKNOWN................	4,234	4,483,552	124	1,008,793	606	10,370,959	4,964	15,863,304
GRAND TOTAL..............	9,511	8,367,973	289	1,799,041	872	16,231,651	10,672	26,398,665

See notes and sources at end of table

Sources of Spills of Oil and other Substances (Gallons)

1984

Source	Oil No.	Oil Volume	Hazardous No.	Hazardous Volume	Other No.	Other Volume	Total No.	Total Volume
VESSELS								
Tank Ships	244	1,906,668	9	2,837	19	20,126	272	1,929,631
Tank Barges	529	2,488,441	16	52,902	19	22,005	564	2,563,348
Dry Cargo Barges	11	2,900	0	0	0	0	11	2,900
Dry Cargo Ships	170	1,479,833	0	0	16	73	186	1,479,906
Combatants	237	170,319	2	2	8	70	247	170,391
Other	1,234	220,187	4	74	587	830	1,825	221,091
TOTAL	2,425	6,268,348	31	55,815	649	43,104	3,105	6,367,267
LAND VEHICLES								
Rail	90	82,111	28	51,692	47	5,865	165	139,668
Highway	393	269,830	28	30,622	52	33,601	473	334,053
Other	152	24,686	2	1,001	16	1,019	170	26,706
TOTAL	635	376,627	58	83,315	115	40,485	808	500,427
NON-TRANSPORT, ON/OFFSHORE								
Refinery	114	149,304	7	5,037	12	10,705	133	165,046
Bulk Storage	298	1,463,144	12	74,978	19	35,695	329	1,573,817
Onshore Production	99	24,178	2	128	5	1,198	106	25,504
Offshore Production	1,170	56,555	6	99	19	1,097	1,195	57,751
Other	717	228,506	146	313,891	154	457,726	1,017	1,000,123
TOTAL	2,398	1,921,687	173	394,133	209	506,421	2,780	2,822,241
PIPELINES	54	2,613	1	2	3	42	58	2,657
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	27	14,193	0	0	0	0	27	14,193
Bulk Transfer	150	74,754	10	14,222	9	12,043	169	101,019
Non-Bulk Transfer	3	26	0	0	0	0	3	26
Other	0	0	0	0	0	0	0	0
TOTAL	180	88,973	10	14,222	9	12,043	199	115,238
LAND FACILITIES	73	31,062	8	4,450	23	34,863	104	70,375
MISC/UNKNOWN	3,480	7,565,613	35	121,694	998	113,055	4,513	7,800,362
GRAND TOTAL	9,245	16,254,923	316	673,631	2,006	750,013	11,567	17,678,567

See notes and sources at end of table

Section XII
Table 6b

Sources of Spills of Oil and other Substances (Gallons)

1985

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships...................	173	10,732,387	5	131	12	1,247	190	10,733,765
Tank Barges..................	417	3,688,584	19	2,986	16	4,220	452	3,695,790
Dry Cargo Barges.............	12	1,779	1	0	2	1	15	1,780
Dry Cargo Ships..............	145	177,067	4	173	16	7,033	165	184,273
Combatants...................	135	13,770	0	0	6	2	141	13,772
Other........................	1,187	514,215	3	42	842	10,021	2,032	524,278
TOTAL.....................	2,069	15,127,802	32	3,332	894	22,524	2,995	15,153,658
LAND VEHICLES								
Rail.........................	69	69,948	26	6,949	42	711	137	77,608
Highway......................	307	137,731	36	4,226	70	27,815	413	169,772
Other........................	108	20,777	2	17	19	5,882	129	26,676
TOTAL.....................	484	228,456	64	11,192	131	34,408	679	274,056
NON-TRANSPORT, ON/OFFSHORE								
Refinery.....................	88	1,325,077	8	760	19	25,141	115	1,350,978
Bulk Storage.................	206	380,139	16	23,231	17	12,378	239	415,748
Onshore Production..........	150	127,569	12	1,155,276	27	85,394	189	1,368,239
Offshore Production..........	831	26,922	4	530	40	599	875	28,051
Other........................	555	234,901	156	127,002	123	2,581,336	834	2,943,239
TOTAL.....................	1,830	2,094,608	196	1,306,799	226	2,704,848	2,252	6,106,255
PIPELINES......................	65	43,047	0	0	4	203	69	43,250
MARINE FAC. ON/OFFSHORE								
Fuel Transfer................	20	10,432	0	0	0	0	20	10,432
Bulk Transfer................	91	26,360	18	18,794	8	7,668	117	52,822
Non-Bulk Transfer............	1	0	0	0	0	0	1	0
Other........................	82	19,757	8	82	10	203	100	20,042
TOTAL.....................	194	56,549	26	18,876	18	7,871	238	83,296
LAND FACILITIES.............	130	88,946	30	10,457	29	7,511	189	106,914
MISC/UNKNOWN................	2,250	1,035,732	62	41,818	920	188,321	3,232	1,265,871
GRAND TOTAL...............	6,993	18,666,794	410	1,392,474	2,219	2,965,386	9,622	23,024,654

See notes and sources at end of table

Section XII
Table 6c

Sources of Spills of Oil and other Substances
(Gallons)

1985

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships..................	203	1,163,809	18	5,618	27	1,470	248	1,170,897
Tank Barges..................	577	1,884,500	37	212,712	25	8,734	639	2,105,946
Dry Cargo Barges.............	13	556	1	0	3	8	17	564
Dry Cargo Ships.............	170	35,563	5	615	32	12,349	207	48,527
Combatants...................	95	28,031	0	0	6	2,086	101	30,117
Other........................	1,761	285,526	12	1,650	419	8,322	2,192	295,498
TOTAL....................	2,819	3,397,985	73	220,595	512	32,969	3,404	3,651,549
LAND VEHICLES								
Rail.........................	14	1,285	12	0	4	1	30	1,286
Highway......................	218	35,772	28	3,552	24	4,098	270	43,422
Other........................	27	297	0	0	3	0	30	297
TOTAL....................	259	37,354	40	3,552	31	4,099	330	45,005
NON-TRANSPORT, ON/OFFSHORE								
Refinery.....................	37	272,847	2	200	8	266	47	273,313
Bulk Storage.................	76	352,539	8	1,400	15	3,782	99	357,721
Onshore Production..........	83	8,084	28	6,858	56	402,498	167	417,440
Offshore Production..........	260	11,735	0	0	6	16	266	11,751
Other........................	141	9,542	35	16,485	32	102,297	208	128,324
TOTAL....................	597	654,747	73	24,943	117	508,859	787	1,188,549
PIPELINES.....................	41	173,599	2	5	2	1	45	173,605
MARINE FAC. ON/OFFSHORE								
Fuel Transfer................	2	2	0	0	0	0	2	2
Bulk Transfer................	11	1,789	0	0	2	90	13	1,879
Non-Bulk Transfer...........	0	0	0	0	0	0	0	0
Other........................	305	80,497	18	25,258	19	16,052	342	121,807
TOTAL....................	318	82,288	18	25,258	21	16,142	357	123,688
LAND FACILITIES.............	256	23,779	41	66,020	52	5,722	349	95,521
MISC/UNKNOWN................	1,538	297,449	128	113,705	622	292,335	2,288	703,489
GRAND TOTAL..............	5,762	4,440,452	371	453,900	1,351	859,973	7,484	5,754,325

SOURCE: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1983, 1984, 1985, 1986.

Section XII
Table 7

Total and Average Consumption of Motor Fuel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1947	30,872	20,086	651	6,650	7,243	1,089	176	778	4,420
1948	33,394	21,369	640	7,379	8,189	1,110	184	780	4,239
1949	36,429	22,873	628	7,840	8,666	1,105	190	772	4,063
1950	40,311	24,305	603	8,403	10,566	1,257	195	732	3,752
1951	42,835	26,159	611	8,790	11,171	1,220	198	751	3,797
1952	43,741	27,969	639	9,055	11,849	1,303	206	766	3,723
1953	46,460	29,613	637	9,576	12,245	1,279	244	771	3,156
1954	48,413	30,915	639	9,726	12,541	1,289	233	755	3,240
1955	52,092	33,548	644	10,413	13,308	1,278	255	771	3,021
1956	54,249	35,326	651	10,737	13,978	1,302	255	802	3,145
1957	56,375	36,769	652	10,961	14,271	1,302	264	825	3,125
1958	57,392	38,095	664	11,159	14,514	1,301	270	809	2,996
1959 (c)	60,132	40,056	666	11,671	15,453	1,324	265	823	3,106
1960	62,258	41,169	661	11,945	15,882	1,330	272	827	3,040
1961	63,870	42,033	658	12,291	16,443	1,338	281	830	2,957
1962	66,638	43,771	657	12,809	17,089	1,334	288	837	2,906
1963	69,842	45,246	648	13,360	18,432	1,380	298	838	2,813
1964	72,969	47,567	652	14,013	19,470	1,389	305	864	2,829
1965	76,634	49,723	649	14,795	20,506	1,386	314	875	2,784
1966	79,878	54,987	688	15,503	18,842	1,215	322	835	2,593
1967	82,352	57,546	699	16,169	19,325	1,195	338	860	2,545
1968	85,694	61,176	714	16,942	20,867	1,232	352	907	2,578
1969	89,174	64,850	727	17,874	22,395	1,253	364	889	2,442
1970	92,068	67,879	737	18,797	23,629	1,257	378	820	2,172
1971	96,062	71,423	744	19,871	25,292	1,273	397	844	2,125
1972	100,842	76,308	757	21,308	27,830	1,306	407	924	2,270
1973	106,356	78,772	741	23,244	30,713	1,321	425	988	2,326
1974	109,823	75,191	685	24,630	30,144	1,224	447	965	2,159
1975	111,670	76,560	686	25,781	31,371	1,217	462	1,053	2,279
1976	115,122	79,813	693	27,876	34,840	1,250	478	1,046	2,188
1977	117,221	80,524	687	29,314	38,127	1,301	491	974	1,984
1978	121,441	81,804	674	31,336	42,274	1,349	505	989	1,957
1979	123,851	77,476	626	32,914	43,642	1,326	527	996	1,891
1980	127,295	72,067	566	33,667	41,854	1,243	529	1,018	1,926
1981	129,030	71,168	552	34,644	42,231	1,219	544	1,054	1,938
1982	129,456	70,260	543	35,382	42,142	1,191	559	982	1,756
1983	132,029	70,082	531	36,723	45,121	1,229	583	878	1,507
1984	133,638	68,893	516	37,507	49,050	1,308	584	793	1,359
1985	137,128	69,450	506	39,196	51,037	1,302	593	835	1,407
1986	140,693	71,404	508	40,069	52,911	1,320	594	869	1,463
1987	142,125	70,763	498	41,144	55,850	1,357	602	903	1,500

See notes and sources at end of table

Total and Average Consumption of Motor Fuel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1988	145,836	72,149	495	42,529	57,186	1,345	616	921	1,496
1989	147,460	72,956	495	43,610	57,912	1,328	625	949	1,518
1990	147,809	72,626	491	44,479	58,056	1,305	627	901	1,436

(a) Travel by motorcycles included with passenger cars.
(b) Includes commercial, school and non-revenue buses.
(c) Includes Alaska and Hawaii beginning in 1959.

SOURCE: 1947-1985: Federal Highway Administration, Highway Statistics Summary to 1985
1986-1990: Federal Highway Administration, Highway Statistics, Annual

Total and Average Travel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	300,440	9,732	14.95	66,203	9,955	9.14	4,251	24,153	5.46
1948	319,665	9,573	14.96	74,009	10,030	9.04	4,283	23,277	5.49
1949	342,478	9,401	14.97	77,731	9,915	8.97	4,252	22,326	5.51
1950	363,613	9,020	14.95	90,552	10,776	8.57	4,081	20,910	5.57
1951	392,131	9,154	14.99	94,844	10,790	8.49	4,118	20,820	5.48
1952	410,187	9,378	14.67	99,060	10,940	8.36	4,334	21,062	5.66
1953	435,351	9,370	14.70	104,633	10,927	8.54	4,449	18,234	5.77
1954	450,605	9,308	14.58	105,844	10,883	8.44	4,408	16,918	5.84
1955	487,540	9,359	14.53	111,387	10,697	8.37	4,507	17,658	5.85
1956	507,138	9,348	14.36	116,100	10,813	8.31	4,605	18,059	5.74
1957	529,332	9,391	14.40	113,190	10,328	7.93	4,393	16,640	5.32
1958	544,873	9,494	14.30	115,470	10,348	7.96	4,310	15,963	5.33
1959 (c)	572,976	9,529	14.30	123,154	10,552	7.97	4,348	16,408	5.28
1960	588,083	9,446	14.28	126,409	10,583	7.96	4,353	16,004	5.26
1961	604,557	9,465	14.38	128,582	10,461	7.82	4,396	15,661	5.30
1962	629,097	9,441	14.37	133,289	10,406	7.80	4,466	15,507	5.34
1963	645,371	9,240	14.26	155,569	11,644	8.44	4,483	15,049	5.35
1964	677,613	9,286	14.25	164,271	11,723	8.43	4,616	15,115	5.34
1965	709,300	9,255	14.27	173,656	11,737	8.47	4,684	14,903	5.35
1966	777,480	9,733	14.14	143,891	9,281	7.64	4,528	14,055	5.42
1967	811,046	9,849	14.09	148,332	9,174	7.68	4,627	13,693	5.38
1968	850,288	9,922	13.90	160,656	9,483	7.70	4,925	14,001	5.43
1969	884,705	9,921	13.64	172,266	9,638	7.69	4,820	13,234	5.42
1970	919,679	9,989	13.55	185,501	9,869	7.85	4,544	12,035	5.54
1971	969,947	10,097	13.58	204,072	10,270	8.07	4,792	12,068	5.68
1972	1,025,696	10,171	13.44	228,742	10,735	8.22	5,348	13,144	5.79
1973	1,051,175	9,884	13.34	256,143	11,020	8.34	5,792	13,631	5.86
1974	1,012,696	9,221	13.47	262,164	10,644	8.70	5,684	12,715	5.89
1975	1,039,579	9,309	13.58	282,030	10,940	8.99	6,055	13,102	5.75
1976	1,084,218	9,418	13.58	311,904	11,189	8.95	6,258	13,083	5.98
1977	1,115,592	9,517	13.85	345,612	11,790	9.06	5,823	11,865	5.98
1978	1,153,666	9,500	14.10	385,153	12,291	9.11	5,885	11,645	5.95
1979	1,122,277	9,062	14.49	400,909	12,181	9.19	5,947	11,290	5.97
1980	1,121,810	8,813	15.56	399,426	11,864	9.54	6,059	11,458	5.95
1981	1,141,517	8,847	16.04	405,045	11,692	9.59	6,241	11,475	5.92
1982	1,176,166	9,085	16.74	413,021	11,673	9.80	5,823	10,413	5.93
1983	1,206,792	9,140	17.22	440,806	12,004	9.77	5,199	8,919	5.92
1984	1,233,703	9,232	17.91	481,926	12,849	9.83	4,640	7,950	5.85
1985	1,269,651	9,259	18.28	499,652	12,747	9.79	4,876	8,216	5.84
1986	1,310,611	9,315	18.35	519,188	12,957	9.81	5,073	8,544	5.84
1987	1,364,836	9,603	19.29	551,050	13,393	9.87	5,318	8,833	5.89
1988	1,439,603	9,871	19.95	580,893	13,659	10.16	5,466	8,878	5.93

See notes and sources at end of table

Total and Average Travel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1989	1,488,140	10,092	20.40	602,657	13,819	10.41	5,659	9,054	5.96
1990	1,524,942	10,317	21.00	616,831	13,868	10.62	5,728	9,136	6.36

(a) Travel by motorcycles included with passenger cars.
(b) Includes commercial, school and non-revenue buses.
(c) Includes Alaska and Hawaii beginning in 1959.

SOURCE: 1947-1985: Federal Highway Administration, Highway Statistics Summary to 1985.
1986-1990: Federal Highway Administration, Highway Statistics, Annual

Section XII
Table 9

Market Shares and Total Model Year Sales of New Domestic and Import Automobiles

Year	Minicompact	Subcompact	Compact	Midsize	Large	Two Seater	Total Sales
1976	NA	27.1%	29.3%	18.7%	22.8%	2.1%	9,686,855
1977	8.1	19.1	26.9	19.2	24.6	2.1	10,565,797
1978	8.5	19.0	15.2	33.0	22.3	1.9	11,090,649
1979	5.5	30.7	8.4	33.8	19.4	2.1	10,788,257
1980	4.7	37.8	6.6	33.8	14.7	2.4	9,094,506
1981	3.3	33.0	13.4	35.1	12.5	2.7	8,879,864
1982	2.9	31.4	17.0	33.1	13.0	2.6	7,658,171
1983	2.6	26.8	22.0	31.7	14.5	2.3	8,770,413
1984	0.4	24.6	27.1	30.0	14.7	3.2	10,211,065
1985	0.5	20.5	33.4	28.4	13.8	3.4	10,968,515
1986	1.7	21.2	34.5	26.9	13.2	2.5	11,099,046
1987	1.4	18.2	40.3	24.3	13.4	2.4	10,434,137
1988	0.8	19.1	40.5	24.6	13.2	1.8	10,372,985
1989	0.2	19.3	36.3	28.9	13.8	1.6	10,173,827
1990	0.8	22.0	34.2	27.2	13.9	1.8	9,224,465

NA = Not Available

SOURCE: 1976-1989: Oak Ridge National Laboratory, Light-Duty Vehicle MPG and Market Shares Report: Model Year 1989
1990: Oak Ridge National Laboratory, Highway Vehicle MPG and Market Shares Report: Model Year 1990.

Section XII
Table 10

Mileage and Deliveries for United States Liquid Pipelines

	Miles of Pipelines				Deliveries (mb)		
		Trunk					
Year	Gathering	Crude	Products	Total	Crude	Products	Total
1979	36,927	58,606	74,261	169,794	6,728,193	4,412,059	11,140,252
1980	35,279	59,560	74,510	169,349	6,404,640	4,194,940	10,599,580
1981	38,558	57,904	76,353	172,815	6,069,575	4,152,962	10,222,537
1982	35,580	59,567	77,402	172,549	5,967,624	4,213,086	10,180,710
1983	30,966	57,466	79,387	167,819	6,020,301	4,289,301	10,309,602
1984	36,072	56,975	80,875	173,922	5,671,448	4,552,237	10,223,685
1985	35,021	55,844	80,536	171,401	6,238,731	4,505,992	10,744,723
1986	34,209	54,153	81,652	170,014	6,366,433	4,715,889	11,082,322
1987	35,055	54,886	77,924	167,865	6,277,670	4,916,665	11,194,335
1988	34,311	55,900	80,246	170,457	6,509,367	4,974,279	11,483,646
1989	33,349	55,664	79,624	168,637	6,434,559	4,846,481	11,281,040
1990	32,349	55,504	80,511	168,364	6,562,462	4,815,951	11,378,413

SOURCE: The Oil and Gas Journal, Pipeline Economics issue.

Mileage and Compressor Stations for United States Natural Gas Pipelines

Year	Miles of Pipeline				Total Compressor Stations		
	Transmission	Field	Storage	Total	Transmission	Other	Total
1980	189,648	68,641	7,252	265,541	1,127	866	1,993
1981	196,942	72,812	4,610	274,364	1,097	860	1,957
1982	204,896	76,073	6,030	286,999	1,116	995	2,111
1983	203,403	75,095	6,706	285,204	1,367	1,342	2,709
1984	187,465	66,172	4,742	258,379	1,152	898	2,050
1985	197,727	77,145	4,523	279,395	1,629	726	2,355
1986	201,662	72,934	5,274	279,870	1,537	911	2,448
1987	198,578	72,981	8,526	280,085	1,331	897	2,228
1988	204,192	72,393	4,796	281,381	1,336	938	2,274
1989	205,606	63,201	4,594	273,401	1,458	783	2,241
1990	208,358	62,148	4,436	274,942	1,513	766	2,279

SOURCE: The Oil and Gas Journal, Pipeline Economics issue.

BASIC PETROLEUM DATA BOOK

SECTION XIII. NATURAL GAS

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Estimated Proved World Reserves of Natural Gas
Annually as of January 1
(Trillions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Europe	Sub Total	Communist Nations	USSR/ E. Europe(b)	Total World
1967	289.3	45.0	64.6	398.9	215.1	158.2	32.5	87.7	892.4	150.9	NA	1,043.3
1968	292.9	48.0	67.1	408.0	220.2	167.2	40.1	131.0	966.5	219.0	NA	1,185.5
1969	287.3	46.5	62.9	396.7	223.6	168.3	52.7	138.4	979.7	346.0	NA	1,325.7
1970	275.1	50.7	163.2	489.0	235.1	198.1	67.5	147.5	1,137.8	353.5	NA	1,491.3
1971	290.7 (a)	60.5	73.1	424.3	354.1	191.5	56.3	146.7	1,172.9	441.2	NA	1,614.1
1972	278.8 (a)	54.4	72.7	405.9	343.8	193.0	69.8	161.6	1,174.1	559.8	NA	1,733.9
1973	266.1 (a)	55.0	79.2	400.3	344.0	189.0	101.2	176.6	1,211.1	666.4	NA	1,877.5
1974	250.0 (a)	50.3	91.3	391.6	413.1	187.7	114.2	192.2	1,298.8	737.2	NA	2,036.0
1975	237.1 (a)	52.5	100.2	389.8	672.4	315.0	115.9	201.1	1,694.2	848.0	NA	2,542.2
1976	228.2 (a)	53.4	90.5	372.1	538.1	207.2	111.6	179.9	1,408.9	836.5	NA	2,245.4
1977	216.0 (a)	56.0	90.3	362.3	535.9	209.1	120.0	140.9	1,368.2	954.5	NA	2,322.7
1978	208.9 (a)	58.0	108.5	375.4	719.1	207.5	122.7	137.3	1,562.0	956.4	NA	2,518.4
1979	200.3 (a)	59.0	113.0	372.3	730.2	186.3	119.9	142.4	1,551.1	946.3	NA	2,497.4
1980	194.9 (a)	85.5	144.5	424.9	739.8	210.4	128.8	134.9	1,638.8	936.0	NA	2,574.8
1981	199.0 (a)	87.3	149.0	435.3	751.9	208.5	126.3	158.3	1,680.3	955.4	NA	2,635.7
1982	201.7 (a)	89.9	176.3	467.9	761.9	211.7	127.6	151.2	1,720.3	1,194.7	NA	2,915.0
1983	201.5 (a)	97.0	186.6	485.1	769.2	189.4	146.2	157.3	1,747.2	1,283.8	NA	3,031.0
1984	200.2 (a)	90.5	186.4	477.1	774.0	189.6	156.2	158.3	1,755.2	1,446.8	NA	3,202.0
1985	197.5 (a)	92.3	184.9	474.7	869.4	187.2	166.2	206.7	1,904.2	1,497.4	NA	3,401.6
1986	193.4 (a)	99.7	189.3	482.4	855.9	198.3	171.5	226.4	1,934.5	1,546.0	NA	3,480.5
1987	191.6 (a)	99.6	190.1	481.3	925.3	201.4	198.6	229.7	2,036.3	1,595.8	NA	3,632.1
1988	187.2 (a)	98.0	226.7	511.9	1,084.0	248.6	224.8	218.2	2,287.5	1,510.0	NA	3,797.5
1989	168.0	95.1	236.1	499.2	1,182.1	253.3	240.7	200.1	2,375.4	1,560.7	NA	3,936.1
1990	167.1	94.3	233.7	495.1	1,226.2	266.7	248.0	191.9	2,427.9	1,563.3	NA	3,991.2
1991	169.3	97.6	242.3	506.1	1,324.3	285.1	298.6	175.3	2,589.4	NA	1,619.0	4,208.3
1992	169.3	96.7	238.5	504.5	1,319.1	310.2	299.3	178.5	2,611.6	NA	1,766.4	4,378.1

(a) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available
(b) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1967-1980: United States: American Gas Association, Committee on Natural Gas Reserves
1981-1991: United States: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Annual Report
1967-1991: Rest of the World: The Oil & Gas Journal, "Worldwide Report" issues
1992: All nations, Oil and Gas Journal, "Worldwide Production Report" issue.

Section XIII
Table 2

The Supply of United States Natural Gas
(Millions of cubic feet - 14.72 psia at 60 F.)

Year	Proved Reserves at Start of Year (c)	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(d)	Production During Year(a)	Proved Reserves at Year-end(c)
1947	160,575,901	10,980,824	NA	5,629,811	165,926,914
1948	165,926,914	13,898,572	51,482	6,007,628	173,869,340
1949	173,869,340	12,674,299	82,746	6,245,041	180,381,344 (e)
1950	179,401,693 (e)	11,984,290	54,006	6,855,244	184,584,745
1951	184,584,745	15,965,808	132,030	7,923,673	192,758,910
1952	192,758,910	14,267,606	197,766	8,592,716	198,631,566
1953	198,631,566	20,341,933	513,629 (b)	9,188,365	210,298,763
1954	210,298,763	9,547,074	90,408	9,375,314	210,560,931
1955	210,560,931	21,897,616	87,164	10,063,167	222,482,544
1956	222,482,544	24,716,115	133,241	10,848,685	236,483,215
1957	236,483,215	20,008,051	178,761	11,439,890	245,230,137
1958	245,230,137	18,896,724	57,582	11,422,651	252,761,792
1959	252,761,792	20,621,249	160,453	12,373,036	261,170,431
1960	261,170,431	13,893,978	281,272	13,019,356	262,326,326
1961	262,326,326	17,166,421	159,544	13,378,649	266,273,642
1962	266,273,642	19,483,958	159,231	13,637,973	272,278,858
1963	272,278,858 (f)	18,164,667	253,733	14,546,025	276,151,233
1964	276,151,233	20,252,139	195,110	15,347,028	281,251,454
1965	281,251,454	21,319,279	150,483	16,252,293	286,468,923
1966	286,468,923	20,220,432	134,523	17,491,073	289,332,805
1967	289,332,805	21,804,333	151,403	18,380,838	292,907,703
1968	292,907,703	13,697,008	118,569	19,373,428	287,349,852
1969	287,349,852	8,375,004	107,169	20,723,190	275,108,835
1970	275,108,835	37,196,359 (c)	402,018	21,960,804	290,746,408
1971	290,746,408	9,825,421	310,301	22,076,512	278,805,618
1972	278,805,618	9,634,563	156,563	22,511,898	266,084,846
1973	266,084,846	6,825,049	(354,282)	22,605,406	249,950,207
1974	249,950,207	8,679,184	(178,424)	21,318,470	237,132,497
1975	237,132,497	10,483,688	302,561	19,718,570	228,200,176
1976	228,200,176	7,555,468	(187,550)	19,542,020	216,026,074
1977	216,026,074	11,851,924	446,930	19,447,050	208,877,878
1978	208,877,878	10,586,144	148,733	19,311,048	200,301,707
1979	200,301,707	14,285,947	239,323	19,910,353	194,916,624
1980 (g)	200,997,000	16,723,000	NA	18,699,000	199,021,000
1981	199,021,000	21,446,000	NA	18,737,000	201,730,000
1982	201,730,000	17,288,000	NA	17,506,000	201,512,000
1983	201,512,000	14,523,000	NA	15,788,000	200,247,000
1984	200,247,000	14,409,000	NA	17,193,000	197,463,000
1985	197,463,000	11,891,000	NA	15,985,000	193,369,000
1986	193,369,000	13,827,000	NA	15,610,000	191,586,000
1987	191,586,000	11,739,000	NA	16,114,000	187,211,000

See notes and sources at end of table

Section XIII
Table 2a

The Supply of United States Natural Gas
(Millions of cubic feet - 14.72 psia at 60 F.)

Year		Proved Reserves at Start of Year (c)	Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(d)	Production During Year(a)	Proved Reserves at Year-end(c)
1988	(h)	187,211,000	(2,517,000)	NA	16,670,000	168,024,000
1989		168,024,000	16,075,000	NA	16,983,000	167,116,000
1990		167,116,000	19,463,000	NA	17,233,000	169,346,000

NA = Not Available
(a) Estimated.
(b) All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.
(c) Figures from 1971 to 1987 include 26 trillion cubic feet in Prudhoe Bay, Alaska, (discovered in 1968).
(d) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported ~~since 1972~~ using former basis).
(e) Natural gas reserves have been revised back to 1950. Because of this, proved reserves at year-end 1949 and proved reserves at start of year 1950 are not the same.
(f) Excludes gas loss due to natural gas liquids recovery.
(g) Beginning in 1980, the data used are from the Department of Energy. Because of different methodology, the reserves at start of year (from DOE) differ from reserves at year-end 1979 (from AGA).
(h) An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during that last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

SOURCE: 1947-1979: American Gas Association, Committee on Natural Gas Reserves, Gas Facts.
1980-1990: U.S. Energy Information Administration, US Crude and Natural Gas and NGL Reserves.

Section XIII
Table 3

The Reserves of United States Natural Gas Liquids
(Thousands of Barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1947	3,163,219	251,538	160,782	3,253,975	20.2
1948	3,253,975	470,557	183,749	3,540,783	19.3
1949	3,540,783	386,776	198,547	3,729,012	18.8
1950	3,729,012	766,062	227,411	4,267,663	18.8
1951	4,267,663	723,991	267,052	4,724,602	17.7
1952	4,724,602	556,838	284,789	4,996,651	17.5
1953	4,996,651	743,969	302,698	5,437,922	18.0
1954	5,437,922	107,350	300,815	5,244,457	17.4
1955	5,244,457	514,508	320,400	5,438,565	17.0
1956	5,438,565	809,820	346,053	5,902,332	17.1
1957	5,902,332	137,392	352,364	5,687,360	16.1
1958	5,687,360	858,206	341,548	6,204,018	18.2
1959	6,204,018	703,444	385,154	6,522,308	16.9
1960	6,522,308	725,130	431,379	6,816,059	15.8
1961	6,816,059	694,686	461,649	7,049,096	15.3
1962	7,049,096	732,549	470,128	7,311,517	15.6
1963	7,311,517	878,120	515,659	7,673,978	14.9
1964	7,673,978	608,744	536,090	7,746,632	14.4
1965	7,746,632	832,312	555,410	8,023,534	14.4
1966	8,023,534	894,116	588,684	8,328,966	14.1
1967	8,328,966	929,758	644,493	8,614,231	13.4
1968	8,614,231	685,659	701,782	8,598,108	12.2
1969	8,598,108	281,028	735,962	8,143,174	11.1
1970	8,143,174	307,579	747,812	7,702,941	10.3
1971	7,702,941	347,720	746,434	7,304,227	9.8
1972	7,304,227	238,273	755,941	6,786,559	9.0
1973	6,786,559	406,979	740,831	6,454,707	8.7
1974	6,454,707	619,841	724,099	6,350,449	8.8
1975	6,350,449	618,504	701,123	6,267,830	8.9
1976	6,267,830	834,766	700,629	6,401,967	9.1
1977	6,401,967	291,171	698,773	5,994,365	8.6
1978	5,994,365	595,666	664,179	5,925,852	8.9
1979 (a)	6,772,000	570,000	727,000	6,615,000	9.1
1980	6,615,000	844,000	731,000	6,728,000	9.1
1981	6,728,000	1,081,000	741,000	7,068,000	9.3
1982	7,068,000	874,000	721,000	7,221,000	9.9
1983	7,221,000	1,405,000	725,000	7,901,000	10.9
1984	7,901,000	518,000	776,000	7,643,000	9.8
1985	7,643,000	1,054,000	753,000	7,944,000	10.5
1986	7,944,000	959,000	738,000	8,165,000	11.1
1987	8,165,000	729,000	747,000	8,147,000	10.9
1988	8,147,000	845,000	754,000	8,238,000	10.9
1989	8,238,000	262,000	731,000	7,769,000	10.6

See notes and sources at end of table

The Reserves of United States Natural Gas Liquids
(Thousands of Barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1990	7,769,000	549,000	732,000	7,586,000	10.6

(a) Figures beginning with 1979 are from the Department of Energy data, using a different methodology from prior data. Therefore, year-end 1978 and start of year 1979 data are not the same.

SOURCE: 1947-1978: American Gas Association.
1979-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual.

Section XIII
Table 4

World Marketed Production of Natural Gas by Area
(Billions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	Communist Nations	USSR/ E.Europe(a)	Total World
1950	6,282.1	71.7	260.0	6,613.8	0.0	0.0	55.4	33.2	6,702.4	NA	NA	6,702.4
1951	7,457.4	84.0	201.4	7,742.7	0.0	0.0	72.7	52.0	7,867.4	255.3	NA	8,122.7
1952	8,013.5	93.7	223.5	8,330.7	0.0	0.0	85.2	61.9	8,477.8	305.4	NA	8,783.2
1953	8,396.9	106.7	255.0	8,758.7	0.0	0.1	99.6	100.4	8,958.8	503.6	NA	9,462.4
1954	8,742.5	127.6	273.1	9,143.3	0.0	0.3	106.3	131.3	9,381.1	538.3	NA	9,919.4
1955	9,405.4	150.8	356.2	9,912.3	0.0	0.5	82.3	189.8	10,184.9	524.9	NA	10,709.8
1956	10,081.9	169.2	368.2	10,619.2	15.6	0.5	101.8	227.5	10,964.6	656.9	NA	11,621.5
1957	10,680.3	220.0	458.6	11,358.9	25.6	0.4	114.2	251.8	11,750.9	926.2	NA	12,677.0
1958	11,030.3	337.8	616.1	11,984.2	26.3	4.4	119.7	267.5	12,402.1	1,379.7	NA	13,781.7
1959	12,046.1	417.3	714.0	13,177.4	44.5	14.4	133.3	346.9	13,716.6	1,688.0	NA	15,404.6
1960	12,771.0	523.0	775.9	14,069.9	57.3	5.8	157.8	433.8	14,724.7	2,191.9	NA	16,916.6
1961	13,254.0	655.7	864.1	14,773.8	172.1	20.4	170.7	502.2	15,639.2	2,748.4	NA	18,387.6
1962	13,876.6	946.7	956.4	15,779.8	173.3	31.3	193.7	548.4	16,726.4	3,366.0	NA	20,092.4
1963	14,666.6	1,111.5	702.5	16,480.5	149.2	16.0	135.2	560.0	17,340.8	3,678.2	NA	21,018.9
1964	15,462.1	1,327.7	721.6	17,511.4	162.6	33.2	155.3	608.9	18,471.4	4,397.1	NA	22,868.5
1965	16,039.8	1,442.4	779.9	18,262.2	171.2	67.9	168.3	671.1	19,340.6	5,139.6	NA	24,480.2
1966	17,206.6	1,341.8	870.8	19,419.2	193.1	80.1	184.9	796.7	20,674.0	5,771.8	NA	26,445.9
1967	18,171.3	1,471.7	883.5	20,526.5	229.3	85.0	215.3	1,018.6	22,074.8	6,323.0	NA	28,397.8
1968	19,322.4	1,692.3	1,061.6	22,076.3	388.2	96.5	330.3	1,439.1	24,330.3	7,072.9	NA	31,403.1
1969	20,698.2	1,977.8	1,143.3	23,819.4	441.7	113.8	431.1	2,009.7	26,815.7	7,569.4	NA	34,385.1
1970	21,920.6	2,277.1	1,276.6	25,474.4	454.1	122.2	525.3	2,789.0	29,365.0	8,728.9	NA	38,094.0
1971	22,493.0	2,499.0	1,362.6	26,354.7	698.0	522.6	559.8	3,580.7	31,715.8	9,472.6	NA	41,188.4
1972	22,531.7	2,913.5	1,456.6	26,901.8	905.6	471.8	606.0	4,501.1	33,386.4	10,127.5	NA	43,513.9
1973	22,647.5	3,119.5	1,615.8	27,382.8	1,276.9	585.8	775.9	5,148.0	35,169.4	10,958.4	NA	46,127.8
1974	21,600.5	3,045.5	1,659.1	26,305.1	1,423.4	607.7	880.9	5,837.0	35,054.2	12,117.3	NA	47,171.5
1975	20,108.7	3,075.7	1,735.1	24,919.4	1,436.2	670.4	938.4	5,966.7	33,931.1	13,276.3	NA	47,207.3
1976	19,952.4	3,067.4	1,722.1	24,741.9	1,492.8	905.8	1,173.9	6,343.6	34,657.9	14,801.3	NA	49,459.2
1977	20,025.5	3,230.7	1,865.7	25,121.9	1,507.0	919.5	1,329.0	6,502.5	35,379.8	14,720.3	NA	50,100.1
1978	19,974.0	3,128.1	2,012.9	25,115.0	1,579.5	1,117.4	1,469.2	6,649.9	35,930.9	15,818.4	NA	51,749.3
1979	20,471.3	3,646.5	2,610.0	26,727.8	1,624.7	1,027.9	1,827.9	6,866.8	38,075.1	19,591.4	NA	57,666.5
1980	20,179.7	2,668.3	3,297.5	26,145.5	1,221.3	884.7	2,558.4	6,668.7	37,478.6	21,069.9	NA	58,548.5
1981	19,955.8	2,623.0	3,227.0	25,805.8	1,542.0	1,947.0	2,765.0	6,906.0	38,965.8	19,210.0	NA	58,175.8
1982	18,519.7	2,546.1	3,071.5	24,137.3	1,799.7	1,168.9	2,176.6	6,142.1	35,424.6	20,258.0	NA	55,682.6
1983	16,822.1	2,414.1	3,340.5	22,576.7	1,633.0	1,143.8	2,187.7	6,383.4	33,924.6	21,383.0	NA	55,307.6
1984	18,229.6	2,651.8	3,451.8	24,333.2	1,533.4	1,629.1	2,530.7	6,795.4	36,821.8	23,272.1	NA	60,093.9
1985	17,198.0	3,350.6	3,443.2	23,991.8	1,723.7	1,764.0	3,030.8	6,647.2	37,157.5	25,457.9	NA	62,615.4
1986	16,791.0	3,168.3	3,413.6	23,372.9	1,822.8	1,661.8	3,320.9	6,519.6	36,698.0	27,088.2	NA	63,786.2
1987	17,348.5	3,472.7	3,354.5	24,175.7	2,624.1	2,025.7	3,797.6	7,043.9	39,667.0	28,742.5	NA	68,409.5
1988	17,841.5	3,990.2	3,525.8	25,357.5	2,890.3	2,089.3	4,072.5	6,593.7	41,003.3	30,313.7	NA	71,317.0
1989	18,044.5	4,161.0	3,552.3	25,757.8	3,645.5	2,892.3	4,379.6	6,726.2	43,401.4	30,950.9	NA	74,352.3

See notes and sources at end of table

Section XIII
Table 4a

World Marketed Production of Natural Gas by Area
(Billions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	Communist Nations	USSR/ E.Europe(a)	Total World
1990	18,561.6	4,267.0	3,640.1	26,468.7	4,233.9	2,201.6	4,552.0	6,823.7	44,279.9	NA	31,013.8	75,293.7

NA = Not Available
(a) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued.
Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1950-1967: U.S. Bureau of Mines, Minerals yearbook, Annual
1968-1974: U.S. Bureau of Mines, World Natural Gas
1975-1978: U.S. Energy Information Administration, World Natural Gas, Annuals
1979-1990: United States: U.S. Energy Information Administration, Natural Gas Annual
1979-1990: Rest of World: International Petroleum Encylopedia. Copyright PennWell Books, 1991

Salient Statistics of Natural Gas in the United States
(Millions of Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Total Vented and Flared
1947	4,582,173	18,149	4,426,544	-	274,709	86,643	96,316	127,807	1,067,938
1948	5,148,020	18,704	4,945,149	-	333,173	79,035	136,406	126,796	810,178
1949	5,419,736	20,054	5,195,484	-	344,034	106,368	172,051	138,515	853,884
1950	6,282,060	25,727	6,026,404	-	408,521	175,260	229,752	175,437	801,044
1951	7,457,359	24,163	7,102,562	-	542,964	209,428	347,690	192,372	793,186
1952	8,013,457	27,456	7,613,478	7,807	623,649	221,909	398,593	203,646	848,606
1953	8,396,916	28,322	7,979,338	9,225	774,966	246,802	404,836	240,445	810,276
1954	8,742,546	28,726	8,402,852	6,847	882,501	330,177	432,283	215,709	723,567
1955	9,405,351	31,029	9,070,343	10,888	978,357	437,251	503,185	246,933	773,639
1956	10,081,923	35,963	9,706,878	10,380	1,083,812	452,762	589,232	212,992	727,004
1957	10,680,258	41,655	10,279,775	37,941	1,201,759	480,981	672,377	205,373	809,148
1958	11,030,298	38,719	10,760,698	135,797	1,317,492	621,091	704,172	283,597	633,412
1959	12,046,115	18,413	11,819,638	133,990	1,556,800	668,743	787,485	223,312	571,048
1960	12,771,038	11,332	12,509,427	155,646	1,789,970	712,658	844,352	274,231	562,877
1961	13,182,029	10,689	13,010,654	217,671	1,996,241	694,258	839,083	233,532	523,533
1962	13,801,244	15,728	13,814,678	399,353	2,145,301	849,695	935,712	284,174	425,629
1963	14,666,559	16,865	14,560,953	403,997	2,328,030	911,741	1,041,802	362,677	383,408
1964	15,462,143	19,497	15,451,979	440,918	2,387,689	880,498	1,009,302	302,781	339,996
1965	16,039,753	26,132	16,033,189	456,394	2,494,542	959,865	1,077,960	318,711	319,143
1966	17,206,628	24,639	17,191,711	479,780	2,702,759	1,141,614	1,210,469	401,203	267,514
1967	18,171,325	81,614	18,172,894	564,226	2,898,741	1,132,534	1,317,363	296,214	489,877
1968	19,322,400	93,745	19,459,939	651,885	3,168,688	1,329,536	1,425,075	325,062	516,508
1969	20,698,240	51,304	20,922,800	726,951	3,455,615	1,379,488	1,498,988	331,587	525,750
1970	21,920,642	69,813	22,045,799	820,780	3,745,680	1,458,607	1,856,767	227,650	489,460
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	1,507,630	1,839,398	338,999	284,561
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	1,757,218	1,892,952	328,002	248,119
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	1,532,820	1,974,324	195,863	248,292
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	1,700,546	1,784,209	288,731	169,381
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	1,759,565	2,103,619	235,065	133,913
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	1,921,017	1,755,690	216,240	131,930
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	1,749,884	2,306,515	41,063	136,807
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	2,157,765	2,278,002	287,201	153,350
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	2,047,000	2,295,034	372,330	167,019
1980	20,179,724	48,731	19,877,293	984,767	32,043,704	1,909,902	1,896,284	639,559	125,451
1981	19,955,823	59,372	19,403,858	903,949	39,551,253	1,886,940	2,179,683	500,501	98,017
1982	18,519,675	51,728	18,001,055	933,336	45,496,765	2,093,644	2,399,355	474,731	93,365
1983	16,822,144	54,638	16,834,914	919,752	43,614,369	2,142,027	1,700,426	642,059	94,962
1984	18,229,638	54,753	17,950,528	843,060	48,404,611	2,064,292	2,252,347	142,607	107,913
1985	17,197,999	57,095	17,280,943	949,715	43,182,598	2,359,405	2,127,932	354,065	94,778
1986	16,790,910	61,271	16,221,296	750,449	32,607,825	1,811,697	1,952,103	426,726	97,633
1987	17,348,537	54,020	17,210,809	992,532	28,888,630	1,880,951	1,887,110	432,893	123,707
1988	17,841,474	73,638	18,029,588	1,293,812	30,170,751	2,243,621	2,174,328	344,356	142,525

See notes and sources at end of table

Section XIII
Table 5a

Salient Statistics of Natural Gas in the United States
(Millions of Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Total Vented and Flared
1989	18,044,499	106,871	18,780,192	1,381,520	30,575,912	2,803,787	2,492,985	182,217	140,532
1990	18,561,596	85,565	18,714,003	1,532,259	31,740,329	1,949,490	2,450,667	116,865	150,460

SOURCE: 1947-1975: U.S. Bureau of Mines, Natural Gas Annuals
1976-1990: U.S. Energy Information Administration, Natural Gas Annuals

United States Imports of Natural Gas by Source
(million cubic feet)

Year	Canada	Mexico	Algeria(c)	Total Imports	U.S. Natural Gas Consumption
1968	604	47	NA	652	19,460
1969	680	47	NA	727	20,923
1970	780 (a)	41	(b)	821	22,046
1971	913 (a)	21	1	935	22,677
1972	1,009 (a)	8	2	1,019	22,101
1973	1,028 (a)	2	3	1,033	22,049
1974	959	(b)	0	959	21,223
1975	948	0	5	953	19,538
1976	954	0	10	964	19,946
1977	997	2	11	1,011	19,521
1978	881	0	84	966	19,627
1979	1,001	0	253	1,253	20,241
1980	797	102	86	985	19,877
1981	762 (a)	105	37	904	19,404
1982	783	95	55	933	18,001
1983	712	75	131	918	16,835
1984	755	52	36	843	17,951
1985	926	0	24	950	17,281
1986	749	0	0	750 (d)	16,221
1987	993	0	0	993	17,211
1988	1,276	0	17	1,294	18,030
1989	1,339	0	42	1,382	18,780
1990	1,448	0	84	1,532	18,714

(a) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, 0.7 billion cubic feet in 1973, and 0.6 billion cubic feet in 1981.
(b) Less than 500 million cubic feet.
(c) Liquefied natural gas.
(d) Includes a small amount from Indonesia.

SOURCE: 1968-1977: U.S. Energy Information Administration, World Natural Gas Annuals.
1978-1981: U.S. Energy Information Administration, U.S. Imports and Exports of Natural Gas
1982-1987: U.S. Energy Information Administration, Natural Gas Monthly, May issue.
1988-1990: U.S. Energy Information Administration, Natural Gas Annual.

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1975	Nation	1976	Nation	1977	Nation	1978
1. U.S.S.R.	810,000	1. U.S.S.R	800,000	1. U.S.S.R.	918,000	1. U.S.S.R	920,000
2. Iran	330,000	2. Iran	329,500	2. Iran	330,000	2. Iran	500,000
3. United States	237,132	3. United States	228,200	3. United States	216,026	3. United States	208,878
4. Algeria	229,000	4. Algeria	126,000	4. Algeria	125,800	4. Algeria	125,000
5. United Arab Emirates	200,000	5. Saudi Arabia	103,000	5. Saudi Arabia	86,000	5. Saudi Arabia	85,000
6. Netherlands	94,800	6. Netherlands	70,000	6. Netherlands	61,900	6. Netherlands	60,000
7. Canada	56,708	7. Canada	56,975	7. Canada	58,282	7. Canada	58,000
8. Saudi Arabia	55,000	8. United Kingdom	50,000	8. Nigeria	44,000	8. Nigeria	43,000
9. United Kingdom	50,000	9. Nigeria	44,300	9. Venezuela	40,700	9. Venezuela	41,000
10. Nigeria	45,500	10. Venezuela	42,000	10. Australia	32,300	10. Qatar	40,000
11. Venezuela	43,000	11. Australia	32,500	11. Kuwait	31,700	11. Australia	32,000
12. Australia	38,000	12. Kuwait	31,800	12. United Kingdom	30,000	12. Kuwait	31,500
13. Kuwait	32,000	13. Libya	26,300	13. Qatar	27,500	13. Mexico	30,000
14. Iraq	27,500	14. Norway	25,000	14. Iraq	27,000	14. United Kingdom	29,000
15. Libya	26,500	15. China	25,000	15. Libya	25,800	15. Iraq	28,000
16. China	25,000	16. United Arab Emirates	20,000	16. China	25,000	16. Libya	25,700
17. Norway	24,700	17. Pakistan	16,400	17. Indonesia	24,000	17. China	25,000
18. Brunei-Malaysia	22,000	18. Indonesia	15,000	18. Norway	18,500	18. Indonesia	24,000
19. Indonesia	15,000	19. Malaysia	15,000	19. Pakistan	15,820	19. United Arab Emirates	20,000
20. Mexico	15,000	20. Bolivia	10,800	20. Malaysia	15,000	20. Norway	20,000
Total World	2,546,404	Total World	2,248,897	Total World	2,114,905	Total World	2,518,437

See notes and sources at end of table

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1979	Nation	1980	Nation	1981	Nation	1982
1. U.S.S.R.	910,000	1. U.S.S.R.	900,000	1. U.S.S.R.	920,000	1. U.S.S.R.	1,160,000
2. Iran	500,000	2. Iran	490,000	2. Iran	485,000	2. Iran	484,000
3. United States	200,302	3. United States	194,917	3. United States	199,021	3. United States	201,730
4. Algeria	105,000	4. Algeria	132,000	4. Algeria	131,500	4. Algeria	130,900
5. Saudi Arabia	93,900	5. Saudi Arabia	93,230	5. Saudi Arabia	110,000	5. Saudi Arabia	114,000
6. Netherlands	62,000	6. Canada	85,500	6. Canada	87,300	6. Canada	89,900
7. Canada	59,000	7. Qatar	60,000	7. Mexico	64,500	7. Mexico	75,350
8. Nigeria	42,000	8. Netherlands	59,500	8. Netherlands	62,000	8. Qatar	60,000
9. Venezuela	41,000	9. Mexico	59,000	9. Qatar	60,000	9. Netherlands	55,700
10. Qatar	40,000	10. Venezuela	42,800	10. Norway	42,700	10. Norway	49,370
11. Mexico	32,000	11. Nigeria	41,400	11. Venezuela	42,000	11. Venezuela	47,000
12. Kuwait	31,300	12. Kuwait	31,000	12. Nigeria	41,000	12. Nigeria	40,500
13. Australia	31,000	13. Australia	31,000	13. Kuwait	30,800	13. Kuwait	30,500
14. Iraq	27,800	14. Iraq	27,500	14. Australia	30,000	14. Indonesia	27,400
15. United Kingdom	27,000	15. United Kingdom	25,000	15. Iraq	27,450	15. Iraq	27,300
16. China	25,000	16. China	25,000	16. United Kingdom	24,800	16. United Kingdom	26,000
17. Libya	24,200	17. Libya	24,000	17. China	24,500	17. China	24,400
18. Indonesia	24,000	18. Indonesia	24,000	18. Libya	23,800	18. Argentina	23,400
19. Norway	24,000	19. Norway	23,500	19. Indonesia	23,500	19. United Arab Emirates	23,250
20. United Arab Emirates	21,600	20. United Arab Emirates	20,500	20. Argentina	22,000	20. Libya	23,000
Total World	2,497,312	Total World	2,574,158	Total World	2,646,522	Total World	2,915,076

See notes and sources at end of table

Section XIII
Table 7b

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1983	Nation	1984	Nation	1985	Nation	1986
1. U.S.S.R.	1,240,000	1. U.S.S.R.	1,400,000	1. U.S.S.R.	1,450,000	1. U.S.S.R.	1,500,000
2. Iran	482,600	2. Iran	480,000	2. Iran	478,600	2. Iran	470,000
3. United States	201,512	3. United States	200,247	3. United States	197,463	3. United States	193,369
4. Saudi Arabia	117,000	4. Saudi Arabia	121,000	4. Qatar	150,000	4. Qatar	148,000
5. Algeria	111,250	5. Algeria	110,180	5. Saudi Arabia	123,270	5. Saudi Arabia	121,000
6. Canada	97,000	6. Canada	90,500	6. Algeria	109,100	6. Algeria	107,080
7. Mexico	75,850	7. Mexico	75,352	7. Canada	92,300	7. Norway	104,000
8. Qatar	62,000	8. Qatar	62,000	8. Norway	89,000	8. Canada	99,700
9. Norway	58,000	9. Norway	58,800	9. Mexico	77,000	9. Mexico	76,954
10. Venezuela	54,079	10. Venezuela	54,546	10. Netherlands	68,482	10. Netherlands	67,070
11. Netherlands	51,920	11. Netherlands	50,050	11. Venezuela	55,367	11. Venezuela	59,067
12. Malaysia	34,000	12. Malaysia	48,000	12. Malaysia	50,000	12. Malaysia	52,700
13. Nigeria	32,400	13. Nigeria	34,800	13. Indonesia	40,000	13. Nigeria	47,000
14. Kuwait	29,900	14. Kuwait	31,000	14. Nigeria	35,600	14. Indonesia	35,600
15. Indonesia	29,600	15. United Arab Emirates	30,820	15. Kuwait	32,500	15. United Kingdom	33,000
16. Iraq	28,800	16. China	30,300	16. United Arab Emirates	31,570	16. Kuwait	32,500
17. United Arab Emirates	28,580	17. Indonesia	30,200	17. China	30,900	17. United Arab Emirates	32,400
18. United Kingdon	25,400	18. Iraq	29,000	18. Iraq	28,800	18. China	30,000
19. Argentina	25,200	19. United Kingdom	25,100	19. United Kingdom	27,800	19. Iraq	29,000
20. Libya	21,500	20. Argentina	24,420	20. Argentina	24,628	20. Argentina	23,588
Total World	3,031,039	Total World	3,202,197	Total World	3,401,488	Total World	3,480,429

See notes and sources at end of table

Section XIII
Table 7c

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1987	Nation	1988	Nation	1989	Nation	1990
1. U.S.S.R.	1,550,000	1. U.S.S.R.	1,450,000	1. U.S.S.R.	1,500,000	1. U.S.S.R.	1,500,000
2. Iran	450,000	2. Iran	489,400	2. Iran	494,400	2. Iran	500,400
3. United States	191,586	3. United Arab Emirates	201,500	3. United Arab Emirates	199,515	3. United Arab Emirates	191,800
4. Qatar	152,000	4. United States	187,211	4. United States	168,024	4. Saudi Arabia	181,347
5. Saudi Arabia	123,990	5. Qatar	156,700	5. Qatar	156,700	5. United States	167,116
6. Algeria	106,000	6. Saudi Arabia	139,900	6. Saudi Arabia	145,848	6. Qatar	163,100
7. United Arab Emirates	103,400	7. Norway	105,940	7. Algeria	104,200	7. Algeria	114,000
8. Norway	103,180	8. Algeria	105,900	8. Venezuela	102,243	8. Venezuela	100,846
9. Canada	99,600	9. Canada	98,000	9. Canada	95,100	9. Iraq	95,000
10. Mexico	76,500	10. Venezuela	95,000	10. Iraq	95,000	10. Canada	94,300
11. Netherlands	70,400	11. Nigeria	84,000	11. Norway	85,500	11. Nigeria	87,400
12. Venezuela	59,000	12. Mexico	76,530	12. Nigeria	85,000	12. Indonesia	87,015
13. Malaysia	49,440	13. Indonesia	73,000	13. Indonesia	83,590	13. Norway	82,160
14. Indonesia	49,440	14. Netherlands	64,100	14. Mexico	74,831	14. Mexico	73,380
15. Nigeria	47,000	15. Malaysia	52,200	15. Netherlands	62,507	15. Netherlands	61,107
16. Kuwait	35,000	16. Kuwait	36,400	16. Malaysia	51,700	16. Malaysia	51,900
17. United Kingdom	33,400	17. China	30,700	17. Kuwait	42,500	17. Kuwait	48,600
18. China	30,000	18. Iraq	26,300	18. China	31,700	18. China	35,300
19. Iraq	28,000	19. Libya	25,700	19. Argentina	26,700	19. Argentina	27,299
20. Argentina	23,000	20. Argentina	23,600	20. Libya	25,700	20. Libya	25,500
Total World	3,632,166	Total World	3,797,511	Total World	3,936,165	Total World	3,991,235

See notes and sources at end of table

Section XIII
Table 7d

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1991	Nation	1992
1. U.S.S.R	1,600,000	1. U.S.S.R	1,750,000
2. Iran	600,350	2. Iran	600,350
3. United Arab Emirates	198,400	3. United Arab Emirates	198,100
4. Saudi Arabia	180,355	4. Saudi Arabia	184,048
5. United States	169,346	5. United States	169,300
6. Qatar	163,200	6. Qatar	162,000
7. Algeria	114,700	7. Algeria	116,500
8. Venezuela	105,688	8. Venezuela	110,000
9. Canada	97,589	9. Nigeria	104,720
10. Iraq	95,000	10. Canada	96,734
11. Indonesia	91,450	11. Iraq	95,000
12. Nigeria	87,400	12. Mexico	71,508
13. Mexico	72,744	13. Netherlands	69,570
14. Netherlands	60,900	14. Indonesia	64,837
15. Norway	60,674	15. Norway	60,670
16. Malaysia	56,900	16. Malaysia	59,055
17. Kuwait	48,600	17. Kuwait	48,000
18. Libya	43,000	18. Libya	43,000
19. China	35,300	19. China	35,400
20. Argentina	27,000	20. Argentina	20,449
Total World	4,208,315	Total World	4,378,056

SOURCE: 1975-1980: United States, American Gas Association, Committee on Natural Gas Reserves
1981-1991: United States, U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves, Annuals.
1975-1978: Canada, Canadian Petroleum Association
1979-1991: Canada, Oil & Gas Journal, Worldwide Report
1975-1991: Rest of the World, The Oil & Gas Journal, Worldwide Report
1992: All nations, Oil & Gas Journal, Worldwide Production Report.

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1974(a)(b)	Nation	1975(a)(b)	Nation	1976(a)(b)	Nation	1977(a)(b)
1. United States	21,600.5	1. United States	20,108.7	1. United States	19,952.4	1. United States	20,337.5
2. U.S.S.R.	9,201.3	2. U.S.S.R.	10,205.9	2. U.S.S.R.	11,331.3	2. U.S.S.R.	12,395.2
3. Canada	3,045.5	3. Netherlands	3,208.4	3. Netherlands	3,542.7	3. Canada	3,301.4
4. Netherlands	2,956.7	4. Canada	3,075.7	4. Canada	3,157.2	4. Netherlands	2,932.5
5. United Kingdom	1,230.0	5. China	1,400.0	5. Iran	1,699.6	5. China	1,787.0
6. China	1,200.0	6. United Kingdom	1,208.2	6. China	1,433.7	6. Iran	1,756.1
7. Romania	1,011.5	7. Romania	953.5	7. United Kingdom	1,202.3	7. United Kingdom	1,499.9
8. Iran	787.4	8. Iran	771.1	8. Romania	854.6	8. Romania	1,005.5
9. West Germany	713.2	9. West Germany	639.4	9. Mexico	790.8	9. West Germany	907.7
10. Mexico	560.9	10. Mexico	583.9	10. Nigeria	632.6	10. Mexico	745.3
11. Italy	540.4	11. Italy	514.3	11. Italy	562.1	11. Nigeria	717.4
12. Venezuela	476.0	12. Venezuela	450.3	12. West Germany	544.0	12. Libya	488.6
13. Libya	345.2	13. Libya	382.6	13. Libya	439.2	13. Italy	448.6
14. East Germany	273.1	14. East Germany	280.0	14. Venezuela	396.0	14. Venezuela	392.8
15. France	269.4	15. Argentina	271.6	15. Argentina	280.2	15. Indonesia	351.9
16. Argentina	255.7	16. France	259.8	16. Algeria	256.9	16. Algeria	284.5
17. Saudi Arabia	219.0	17. Poland	210.6	17. France	250.7	17. France	256.8
18. Poland	202.7	18. Algeria	210.0	18. Indonesia	248.6	18. Argentina	250.0
19. Algeria	198.5	19. Saudi Arabia	200.0	19. Australia	209.3	19. Australia	236.7
20. Kuwait	186.9	20. Brunei	186.5	20. Chile	175.8	20. Chile	208.9
Total World	47,171.5	Total World	47,207.3	Total World	50,367.1	Total World	53,883.7

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1978(a)(b)	Nation	1979(a)(b)	Nation	1980(a)(b)	Nation	1981(a)(b)
1. United States	19,974.0	1. United States	20,471.3	1. United States	20,378.8	1. United States	20,177.7
2. U.S.S.R.	13,131.6	2. U.S.S.R.	14,367.1	2. U.S.S.R.	15,355.5	2. U.S.S.R.	16,390.0
3. Canada	3,133.1	3. Canada	3,646.5	3. China	3,469.0	3. Netherlands	3,054.0
4. China	2,352.2	4. China	2,832.7	4. Netherlands	2,799.6	4. Canada	2,623.0
5. Iran	1,746.9	5. Netherlands	2,717.8	5. Canada	2,668.3	5. Mexico	1,486.0
6. Netherlands	1,624.5	6. United Kingdom	1,965.7	6. United Kingdom	1,500.0	6. Romania	1,440.0
7. United Kingdom	1,262.4	7. Romania	1,210.5	7. Mexico	1,190.5	7. United Kingdom	1,427.0
8. Romania	1,211.6	8. Mexico	974.9	8. Romania	1,176.4	8. Algeria	1,149.0
9. Mexico	887.5	9. Iran	913.3	9. Indonesia	1,028.4	9. Indonesia	1,075.0
10. West Germany	643.2	10. West Germany	826.3	10. West Germany	738.6	10. Norway	923.0
11. Nigeria	586.6	11. Indonesia	816.3	11. Norway	705.2	11. Libya	674.0
12. Indonesia	565.8	12. Italy	533.6	12. Pakistan	600.0	12. West Germany	636.0
13. Italy	540.8	13. Norway	414.9	13. Italy	524.6	13. Venezuela	602.0
14. Venezuela	401.4	14. Venezuela	406.0	14. Venezuela	518.0	14. Pakistan	600.0
15. Libya	364.0	15. Nigeria	365.6	15. Algeria	517.0	15. Italy	500.0
16. Norway	351.8	16. Chile	306.4	16. Saudi Arabia	310.2	16. China	459.0
17. Algeria	328.7	17. Brunei-Malaysia	302.7	17. Argentina	296.9	17. Saudi Arabia	435.0
18. Brunei-Malaysia	325.7	18. Algeria	301.5	18. Iran	292.0	18. Australia	377.0
19. Chile	320.7	19. Australia	254.1	19. Kuwait	291.3	19. Kuwait	340.0
20. Argentina	254.3	20. Argentina	241.7	20. Brunei	282.0	20. Argentina	330.0
Total World	53,911.1	Total World	57,666.5	Total World	58,747.7	Total World	58,397.7

See notes and sources at end of table

Section XIII
Table 8b

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1982(a)(b)	Nation	1983(a)(b)	Nation	1984(a)(b)	Nation	1985(a)(b)
1. United States	18,519.7	1. U.S.S.R.	18,903.0	1. U.S.S.R.	20,721.1	1. U.S.S.R.	22,697.9
2. U.S.S.R.	17,685.3	2. United States	16,822.1	2. United States	18,229.6	2. United States	17,198.0
3. Canada	2,546.1	3. Netherlands	2,678.9	3. Netherlands	2,677.5	3. Canada	3,350.6
4. Netherlands	2,521.7	4. Canada	2,414.1	4. Canada	2,651.8	4. Netherlands	2,858.8
5. Mexico	1,549.7	5. Mexico	1,479.5	5. United Kingdom	1,423.3	5. United Kingdom	1,497.1
6. United Kingdom	1,276.1	6. United Kingdom	1,395.3	6. Mexico	1,373.3	6. Algeria	1,320.0
7. Romania	1,150.0	7. Romania	1,200.0	7. Algeria	1,260.0	7. Mexico	1,312.2
8. Norway	861.9	8. Norway	861.4	8. Romania	1,240.0	8. Romania	1,200.0
9. Algeria	828.5	9. Algeria	707.0	9. Norway	922.6	9. Indonesia	1,056.0
10. Saudi Arabia	591.8	10. West Germany	605.2	10. Indonesia	732.0	10. Norway	902.2
11. West Germany	585.3	11. Venezuela	559.2	11. Argentina	653.2	11. Argentina	667.3
12. Indonesia	568.9	12. Argentina	549.6	12. West Germany	648.2	12. Venezuela	609.6
13. Venezuela	527.2	13. Iran	500.2	13. Italy	638.9	13. West Germany	608.1
14. Italy	503.6	14. Indonesia	481.8	14. Venezuela	609.6	14. China	600.0
15. Australia	415.8	15. Italy	450.1	15. Australia	444.4	15. Iran	480.0
16. Argentina	386.2	16. Australia	423.5	16. China	420.0	16. Australia	473.7
17. Iran	381.5	17. Saudi Arabia	381.5	17. France	373.4	17. Italy	448.9
18. China	363.7	18. China	371.0	18. Iran	360.0	18. Pakistan	355.3
19. France	332.6	19. Pakistan	341.4	19. Pakistan	355.2	19. United Arab Emirates	336.0
20. Pakistan	315.3	20. Brunei	316.3	20. Brunei	312.0	20. Brunei	300.0
Total World	55,682.6	Total World	55,307.6	Total World	60,093.9	Total World	62,615.4

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1986(a)(b)	Nation	1987(a)(b)	Nation	1988(a)(b)	Nation	1989(a)(b)
1. U.S.S.R.	24,215.8	1. U.S.S.R.	25,673.8	1. U.S.S.R.	27,192.3	1. U.S.S.R	28,145.0
2. United States	16,791.0	2. United States	17,348.5	2. U.S.	17,841.5	2. United States	18,044.5
3. Canada	3,168.3	3. Canada	3,472.7	3. Canada	3,990.2	3. Canada	4,161.0
4. Netherlands	2,623.3	4. Netherlands	2,731.2	4. Netherlands	2,412.8	4. Netherlands	2,606.3
5. United Kingdom	1,634.0	5. United Kingdom	1,655.3	5. United Kingdom	1,640.5	5. Algeria	2,316.5
6. Mexico	1,252.3	6. Algeria	1,471.6	6. Algeria	1,542.4	6. United Kingdom	1,520.8
7. Algeria	1,238.3	7. Mexico	1,277.4	7. Romania	1,318.8	7. Indonesia	1,345.7
8. Romania	1,210.2	8. Romania	1,267.8	8. Mexico	1,308.5	8. Mexico	1,307.4
9. Indonesia	1,559.9	9. Indonesia	1,234.8	9. Indonesia	1,223.7	9. Romania	1,236.6
10. Norway	906.2	10. Norway	994.1	10. Norway	1,002.9	10. Saudi Arabia	1,079.8
11. Argentina	661.8	11. Saudi Arabia	740.9	11. Saudi Arabia	899.3	11. Norway	1,014.9
12. China	646.0	12. Italy	697.2	12. Argentina	757.4	12. Argentina	846.2
13. Venezuela	615.1	13. Venezuela	680.3	13. Venezuela	722.9	13. Iran	793.9
14. West Germany	545.4	14. Iran	670.7	14. China	715.3	14. United Arab Emirates	790.7
15. Italy	527.3	15. Argentina	659.6	15. Italy	703.7	15. Venezuela	740.1
16. Australia	524.1	16. West Germany	658.9	16. United Arab Emirates	600.0	16. Italy	707.4
17. Iran	489.3	17. United Arab Emirates	575.0	17. West Germany	551.7	17. Australia	629.7
18. Pakistan	390.3	18. Australia	532.8	18. Australia	544.4	18. West Germany	567.2
19. United Arab Emirates	362.1	19. Malaysia	460.9	19. Malaysia	464.8	19. Malaysia	526.0
20 Saudi Arabia	328.7	20. Pakistan	419.8	20. Pakistan	441.7	20. China	515.2
Total World	63,786.2	Total World	68,409.5	Total World	71,317.0	Total World	74,352.3

See notes and sources at end of table

Section XIII
Table 8d

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1990(a)(b)
1. U.S.S.R	28,800.0
2. United States	18,561.6
3. Canada	4,267.0
4. Netherlands	2,618.1
5. United Kingdom	1,700.7
6. Algeria	1,588.0
7. Saudi Arabia	1,401.2
8. Indonesia	1,383.2
9. Mexico	1,322.7
10. Romania	1,181.1
11. United Arab Emirates	1,092.1
12. Norway	896.5
13. Venezuela	862.0
14. Iran	854.4
15. Argentina	816.1
16. Australia	749.9
17. Italy	736.8
18. Malaysia	569.7
19. West Germany	565.7
20. China	517.7
Total World	75,607.8

(a) Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.
(b) United States is reported marketed production; all others may include some gross production.

SOURCE: 1974-1975: U.S. Bureau of Mines, World Natural Gas, May 27,1977
1976-1990: U.S. Energy Information Administration, United States only
1976-1990: Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	0	0	0	2	1	4	41	87	282	42	190	323	172
Alaska	0	0	0	0	0	0	0	0	0	0	0	50	133
Arizona	0	0	0	0	0	0	0	0	15	21	0	0	0
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890	40,674
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582	485,655
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464	99,899
Florida	8	27	39	8	10	15	34	35	36	35	34	35	34
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983	13,739
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378	484
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816	604,410
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248	73,504
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587	2670271
Maryland	0	0	0	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266	4,373
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243	18,916
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143	162,095
Missouri	38	27	24	21	14	16	15	16	15	12	12	0	0
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989	30,743
Nebraska	0	0	0	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405	13,128
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446	739,660
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,598	3,637	4,098	2,869	2,808	2,915
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325	17,915
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786	34,664
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504	811,508
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869	99,366
South Dakota	6	2	1	0	7	6	5	7	0	0	0	0	0
Tennessee	80	127	83	132	132	107	89	89	39	45	38	54	52
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5,156,215	5,178,173	5,718,993
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247	38,921
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521	2,280
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581	204,633
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682	156,978
Total	4,582,173	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,396,916	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298	12,046,115

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	57	56	128	177	165	203	252	248	230	180	627	355	3,644
Alaska	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576	121,618	125,596
Arizona	0	0	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101	868	442
Arkansas	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351	172,154	166,522
California	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689	649,117	612,629	487,278
Colorado	107,404	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804	108,537	116,949
Florida	30	29	29	35	40	107	212	123	108	50	0	903	15,521
Illinois	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850	498	1,194
Indiana	342	382	284	286	199	239	215	198	234	171	153	537	355
Kansas	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955	885,144	889,268
Kentucky	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892	72,723	63,648
Louisiana	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276	8,081,907	7,972,678
Maryland	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978	813	214	244
Michigan	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851	25,662	34,221
Mississippi	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031	118,805	103,989
Missouri	75	90	92	100	107	84	0	121	14	126	87	22	9
Montana	33,418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705	32,720	33,474
Nebraska	15,258	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991	3,496	3,478
New Mexico	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980	1,167,577	1,216,061
New York	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358	2,202	3,679
North Dakota	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889	33,864	32,472
Ohio	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113	79,903	89,995
Oklahoma	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943	1,684,260	1,806,887
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841	76,451	73,958
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	63	71	75	90	77	85	0	58	43	57	64	89	25
Texas	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716	8,550,705	8,657,840
Utah	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781	42,418	39,474
Virginia	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805	2,619	2,787
West Virginia	208,757	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452	234,027	214,951
Wyoming	181,610	194,674	204,996	209,060	231,613	225,849	243,381	240,074	248,481	303,517	338,520	380,105	375,059
Total	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240	21,920,642	22,493,012	22,531,698

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	11,271	27,865	37,814	41,427	57,227	85,599	85,815	105,527	119,334	75,003	90,801	101,821	107,342
Alaska	131,007	128,935	160,270	166,072	187,889	203,088	220,754	230,588	242,564	264,364	276,691	289,129	321,346
Arizona	125	224	208	262	240	286	247	214	187	99	132	45	85
Arkansas	157,529	123,975	116,237	109,533	104,096	106,792	109,452	111,808	92,986	124,611	127,561	135,161	155,099
California	449,369	365,354	318,308	354,334	311,462	311,084	248,206	309,783	380,730	383,977	415,324	476,333	491,283
Colorado	137,725	144,629	171,629	183,972	188,792	183,693	191,239	190,814	199,146	209,892	163,545	173,257	178,233
Florida	33,857	38,137	44,383	43,165	48,171	51,595	50,190	45,744	35,938	22,515	21,056	12,585	10,545
Illinois	1,638	1,436	1,440	1,556	1,003	1,159	1,585	1,574	1,295	1,162	1,030	1,530	1,324
Indiana	276	176	346	192	183	163	350	463	330	233	135	394	367
Kansas	893,118	886,782	843,625	829,170	781,289	854,484	797,762	735,035	640,114	429,597	434,736	465,979	512,872
Kentucky	62,396	71,876	60,511	66,137	60,902	70,044	59,520	57,180	61,312	51,924	46,720	61,518	73,126
Louisiana	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217	6,939,924	6,780,184	6,171,627	5,332,113	5,825,055	5,013,702
Maryland	298	133	93	75	82	88	28	68	56	36	31	60	39
Michigan	44,579	69,133	102,113	119,262	129,954	148,047	159,731	158,302	152,593	153,051	138,910	144,537	131,855
Mississippi	99,706	78,787	74,345	70,762	82,995	106,579	144,077	185,469	211,371	167,231	151,204	157,911	144,172
Missouri	33	33	30	29	20	0	0	0	0	0	0	4	4
Montana	56,175	54,873	40,734	42,563	46,819	46,522	53,888	51,867	56,565	56,517	51,967	51,474	52,494
Nebraska	3,836	2,538	2,565	2,511	2,789	2,882	3,208	2,550	2,519	2,280	2,091	2,300	1,944
New Mexico	1,218,749	1,244,779	1,217,430	1,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,113	991,178	895,279	957,366	905,272
New York	4,539	4,990	7,628	9,235	10,682	13,900	15,500	15,643	16,074	15,877	17,836	25,200	31,561
North Dakota	27,703	31,206	24,786	31,470	29,173	30,499	18,468	42,346	42,573	53,818	69,319	70,496	72,633
Ohio	93,610	92,055	84,960	88,891	99,327	114,098	123,431	138,856	141,134	138,391	151,300	186,480	182,245
Oklahoma	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412	1,730,061	1,985,869	1,936,341
Oregon	0	0	0	0	0	0	2	5	5	3	3	2,790	4,080
Pennsylvania	78,514	82,637	84,676	89,386	91,717	97,763	96,313	97,439	122,454	121,111	118,372	166,342	150,234
South Dakota	0	0	0	0	0	0	914	1,193	1,155	2,331	1,846	1,947	2,558
Tennessee	20	17	27	47	263	468	941	1,241	1,719	2,976	3,950	5,022	4,686
Texas	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623	7,251,879	7,050,207	6,468,817	5,938,561	6,185,021	6,052,663
Utah	42,715	50,522	55,354	57,416	60,696	58,416	58,605	87,766	91,191	94,255	63,158	74,698	83,405
Virginia	5,101	7,096	6,723	6,937	8,220	8,492	8,544	7,812	8,903	6,880	4,346	8,901	15,041
West Virginia	208,676	202,306	154,484	153,322	152,767	148,564	150,505	156,551	161,251	150,850	130,078	143,730	144,883
Wyoming	357,731	326,657	316,123	328,768	330,180	357,267	414,416	409,541	410,499	424,657	443,988	516,683	416,565
Total	22,647,549	21,600,522	20,108,661	19,952.438	20,025,463	19,974,033	20,471,260	20,378,787	20,177,701	18,519,675	16,822,144	18,229,638	17,197,999

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1986	1987	1988	1989	1990
Alabama	107,184	117,241	129,524	128,411	135,276
Alaska	304,841	359,837	378,638	393,729	402,907
Arizona	63	60	56	1,360	2,125
Arkansas	131,075	141,151	166,573	168,300	174,956
California	462,218	424,621	399,663	362,860	362,748
Colorado	163,684	164,557	191,544	216,737	242,997
Florida	8,833	8,281	7,484	7,534	6,483
Illinois	1,887	1,371	1,338	1,477	677
Indiana	365	217	412	416	399
Kansas	465,695	457,050	576,274	587,230	573,603
Kentucky	80,195	70,125	73,629	72,417	75,333
Louisiana	4,895,394	5,122,509	5,180,267	5,078,125	5,241,989
Maryland	20	44	29	34	22
Michigan	127,287	146,996	146,145	155,988	139,955
Mississippi	140,833	139,727	124,053	102,645	94,616
Missouri	4	4	4	4	7
Montana	46,592	46,456	51,654	51,307	50,429
Nebraska	1,403	1,261	910	878	793
New Mexico	702,614	823,773	791,819	854,615	965,104
New York	29,964	25,676	23,455	20,433	25,023
North Dakota	55,098	62,258	57,747	51,174	52,169
Ohio	182,072	166,593	166,690	159,730	154,619
Oklahoma	1,917,493	2,004,797	2,106,632	2,185,204	2,258,471
Oregon	4,600	3,800	4,000	2,500	2,815
Pennsylvania	159,889	163,318	167,089	191,774	177,609
South Dakota	2,231	3,431	3,920	4,369	881
Tennessee	3,464	2,707	2,100	1,900	2,067
Texas	6,151,775	6,126,315	6,286,029	6,241,425	6,343,146
Utah	90,013	87,158	101,372	120,089	145,875
Virginia	15,427	19,223	18,424	17,935	14,774
West Virginia	135,431	160,000	174,942	198,200	178,000
Wyoming	403,266	497,980	509,058	665,699	735,728
Total	16,790,910	17,348,537	17,841,474	18,044,499	18,561,596

(a) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

SOURCE: 1947-1975: U.S. Bureau of Mines, Natural Gas Annuals
1976-1990: U.S Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	50,713	61,113	71,072	92,466	111,030	125,874	136,825	139,551	151,325	160,261	165,772	172,406	178,595
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	133
Arizona	27,768	34,983	44,489	53,419	62,046	63,111	71,210	75,568	88,983	105,860	105,536	105,034	112,722
Arkansas	102,779	112,675	113,922	135,609	155,524	165,603	176,489	192,378	197,374	196,297	201,306	202,361	218,528
California	548,382	617,615	619,323	683,924	787,848	792,520	862,243	933,934	1,020,395	1,021,002	1,091,236	1,078,855	1,180,331
Colorado	49,027	60,585	73,664	88,692	102,769	101,835	115,922	126,048	143,018	145,640	176,936	165,099	196,057
Connecticut	-	-	-	-	-	1,039	5,833	11,415	14,187	18,109	20,328	27,884	25,875
Delaware	-	-	708	1,022	1,679	2,276	1,972	2,980	4,280	5,824	6,014	8,301	9,459
Dist. of Col.	8,474	9,361	9,305	10,694	11,904	12,782	13,134	14,261	15,042	15,833	15,701	17,594	17,123
Florida	7,891	8,973	10,185	12,348	13,044	16,001	19,577	23,159	26,402	35,322	38,871	44,174	91,490
Georgia	41,368	47,552	58,824	67,894	94,596	108,329	122,742	132,069	133,044	148,567	154,778	164,114	180,342
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	765	10,733	15,903	19,641
Illinois	132,153	168,796	202,546	235,211	250,812	344,705	350,980	391,408	398,718	417,443	422,840	452,006	518,111
Indiana	42,528	50,774	55,263	58,620	69,177	96,124	103,444	116,308	126,897	140,135	145,179	154,583	171,158
Iowa	40,948	50,350	57,620	66,233	79,640	94,951	106,755	119,876	138,661	147,892	154,964	159,982	182,827
Kansas	191,952	199,893	206,593	242,603	278,892	279,632	283,604	293,784	309,028	324,335	343,833	362,280	380,241
Kentucky	36,938	41,357	45,504	61,323	74,386	87,006	104,781	110,039	117,496	126,580	132,436	136,990	147,993
Louisiana	375,206	426,837	450,712	475,500	549,305	599,312	594,656	636,704	774,320	839,393	840,331	931,203	893,369
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Maryland	3,402	4,280	4,821	13,813	22,286	26,468	29,470	35,010	39,889	47,553	51,177	57,328	60,674
Massachusetts	-	-	-	-	1,783	11,386	17,683	35,486	43,932	50,691	56,626	67,602	72,994
Michigan	80,571	75,978	84,315	127,180	154,283	163,991	178,307	188,922	207,005	243,465	272,353	298,104	332,756
Minnesota	43,198	52,376	59,040	67,861	84,205	97,591	104,508	115,140	123,734	136,831	147,732	149,042	161,390
Mississippi	52,461	65,245	60,987	76,918	97,786	119,638	118,617	136,797	138,186	145,353	148,279	157,169	183,158
Missouri	78,101	90,883	99,667	140,384	156,922	168,992	173,674	188,349	199,272	219,424	223,528	241,239	255,095
Montana	30,919	32,919	34,361	38,544	37,481	40,771	39,934	40,624	47,491	47,690	52,200	51,825	52,183
Nebraska	39,699	47,647	51,911	61,742	72,386	78,544	83,384	93,189	102,177	109,265	116,326	114,661	132,651
Nevada	-	-	-	-	-	-	-	982	2,484	6,676	8,666	8,826	10,450
New Hampshire	-	-	-	-	3	316	857	1,065	1,206	1,445	1,787	2,421	2,480
New Jersey	-	-	3,172	3,209	30,887	40,409	58,685	65,718	74,601	90,092	100,483	119,946	132,984
New Mexico	102,766	110,132	127,423	147,509	174,808	194,748	200,039	177,221	215,281	229,821	243,800	251,518	272,922
New York	41,572	44,200	51,064	65,157	144,920	180,747	197,878	225,844	243,513	268,408	299,153	343,326	379,928
North Carolina	-	-	-	-	1,631	2,945	6,172	9,436	12,644	16,579	19,533	23,519	32,685
North Dakota	2,608	2,712	2,686	3,279	3,408	3,342	3,559	4,820	9,320	10,428	13,753	15,639	16,981
Ohio	221,571	236,137	246,212	324,594	375,820	393,250	420,809	442,523	500,865	561,557	583,753	618,022	670,618
Oklahoma	254,522	277,955	258,579	286,793	307,887	319,908	333,972	327,936	334,057	358,930	387,277	342,080	379,178
Oregon	-	-	-	-	-	-	-	-	-	4,473	18,227	22,752	27,498
Pennsylvania	175,906	191,631	209,749	263,199	311,937	324,187	335,457	353,185	390,280	431,325	445,813	465,732	502,066
Rhode Island	-	-	-	-	-	-	670	4,423	5,375	6,242	8,139	9,940	11,011
South Carolina	-	-	-	-	853	2,896	8,772	16,573	23,043	44,467	39,741	39,678	54,363
South Dakota	8,016	8,540	8,212	10,001	11,447	11,701	13,688	15,564	16,107	18,002	18,251	19,535	23,584
Tennessee	33,986	37,766	41,609	67,813	88,078	99,817	106,130	114,869	118,052	126,815	130,601	142,860	149,462
Texas	1,444,422	1,605,955	1,658,379	1,824,553	2,130,377	2,175,100	2,194,172	2,198,175	2,236,540	2,323,847	2,455,528	2,555,541	2,865,595
Utah	20,919	21,627	24,338	26,368	29,014	30,929	34,592	41,073	48,903	54,669	57,004	55,706	61,401
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Virginia	3,055	3,877	4,324	7,639	14,853	18,630	27,716	35,604	38,884	43,362	48,527	56,052	59,842
Washington	-	-	-	-	-	-	-	-	-	5,224	40,108	53,063	58,650
West Virginia	106,105	112,702	111,802	132,273	139,608	146,153	148,017	138,846	158,006	161,246	159,520	164,347	191,548
Wisconsin	267	323	1,696	15,380	28,382	33,632	36,339	39,287	40,621	48,188	59,592	67,596	82,377
Wyoming	26,351	31,400	31,407	36,637	38,865	36,287	36,070	36,709	39,705	45,552	45,504	46,810	59,119
U.S. Total(c)	4,426,544	4,945,149	5,195,484	6,026,404	7,102,562	7,613,478	7,979,338	8,402,852	9,070,343	9,706,878	10,279,775	10,760,648	11,819,638

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	184,118	184,909	194,369	205,763	222,047	229,152	233,098	254,176	287,212	300,892	298,497	285,973	278,467
Alaska	229	557	2,137	4,214	5,781	6,922	10,784	11,889	17,548	42,726	63,726	67,706	74,658
Arizona	135,494	153,674	157,892	157,494	162,570	154,489	162,320	158,766	176,547	195,476	192,996	213,313	227,909
Arkansas	216,516	209,420	224,744	251,129	273,671	281,825	295,078	295,460	321,569	349,990	381,951	333,644	316,375
California	1,311,253	1,405,882	1,476,322	1,554,126	1,737,341	1,757,292	1,884,878	1,911,132	2,046,080	2,048,534	2,126,466	2,149,264	2,185,543
Colorado	207,646	212,611	204,940	207,663	236,325	236,745	233,896	231,508	256,820	272,437	282,328	289,369	309,703
Connecticut	28,453	30,361	32,227	34,809	37,502	40,822	47,695	49,780	53,202	57,485	60,574	61,434	64,008
Delaware	9,035	9,380	14,492	16,378	17,091	17,969	19,045	21,063	24,059	25,863	26,421	26,452	24,088
Dist. of Col.	18,142	18,518	19,338	19,359	20,633	21,210	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Florida	137,875	143,656	157,735	177,496	185,249	188,389	212,278	225,531	273,524	311,885	336,816	336,721	298,977
Georgia	182,087	179,957	192,638	187,600	206,691	211,321	233,291	254,334	283,115	311,543	332,526	342,579	331,143
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	22,006	23,969	25,806	26,635	30,825	33,889	36,104	34,283	39,479	41,436	46,570	50,096	56,630
Illinois	536,549	574,346	620,309	658,432	731,921	772,092	854,149	948,353	994,404	1,085,392	1,173,878	1,229,277	1,207,289
Indiana	212,851	239,932	272,309	297,897	333,718	357,882	399,905	434,632	454,013	530,981	545,368	566,996	576,948
Iowa	187,138	204,663	213,552	219,005	243,634	247,513	239,478	272,850	297,498	318,341	348,662	344,639	344,516
Kansas	372,302	364,957	380,055	387,880	433,429	464,337	507,704	450,963	496,550	547,227	575,694	606,989	628,109
Kentucky	159,710	161,912	168,138	175,928	185,780	182,828	160,392	192,464	196,807	234,882	248,048	244,360	255,208
Louisiana	947,938	1,036,887	1,007,041	1,070,471	1,139,186	1,155,260	1,258,776	1,394,376	1,521,492	1,762,955	1,840,840	1,883,924	1,939,762
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Maryland	64,923	68,390	76,551	81,774	86,813	93,957	117,208	139,853	149,125	168,944	182,135	188,371	204,922
Massachusetts	77,886	81,768	89,015	98,447	106,699	114,227	116,198	128,217	132,325	136,988	147,307	156,451	160,280
Michigan	368,531	407,732	443,677	463,667	500,628	558,240	619,863	686,095	700,538	776,573	809,124	850,562	864,770
Minnesota	179,827	192,584	214,130	219,047	236,976	248,741	264,488	283,086	311,898	325,687	342,322	351,442	351,408
Mississippi	188,864	190,930	199,733	227,184	252,023	249,845	286,390	282,160	311,891	326,165	360,382	378,321	377,986
Missouri	261,372	274,487	289,482	303,075	325,194	341,144	351,768	360,703	365,546	398,697	429,526	429,105	425,215
Montana	54,569	57,781	63,298	67,337	67,652	70,895	73,829	65,038	62,898	78,283	87,791	88,271	84,322
Nebraska	139,028	143,169	146,043	149,014	164,224	168,032	198,592	188,661	203,345	210,033	222,335	223,674	224,562
Nevada	12,447	15,864	17,528	19,292	23,928	27,679	34,218	35,035	37,029	44,140	52,558	66,511	69,522
New Hampshire	2,852	3,018	3,315	3,596	3,813	4,084	5,567	6,578	6,630	9,196	10,691	12,088	13,267
New Jersey	139,258	153,806	174,210	188,249	200,109	209,757	227,271	251,482	268,495	304,835	322,853	326,768	321,288
New Mexico	266,409	288,455	292,495	275,969	257,173	263,798	261,918	255,590	260,774	251,905	270,103	269,368	287,993
New York	419,460	435,417	474,384	506,942	513,828	544,414	631,808	589,120	639,845	683,688	710,885	716,550	692,730
North Carolina	45,442	50,523	56,373	62,296	68,533	75,745	86,753	97,981	114,809	136,651	151,227	160,567	163,897
North Dakota	17,274	19,625	22,196	23,765	26,232	30,318	40,836	31,858	33,053	32,682	32,717	33,577	36,473
Ohio	698,569	719,674	756,398	797,318	824,111	879,639	944,767	962,821	987,841	1,031,963	1,052,933	1,087,126	1,147,804
Oklahoma	383,042	378,096	485,726	588,245	598,631	524,404	490,032	449,378	496,465	546,191	597,169	611,582	629,757
Oregon	30,861	33,827	37,865	43,350	53,984	56,065	65,093	69,877	79,226	87,854	95,284	100,897	110,360
Pennsylvania	520,788	529,716	550,080	585,426	607,277	629,485	677,111	678,478	717,909	765,941	772,388	802,113	828,961
Rhode Island	11,839	12,780	13,794	14,725	15,465	16,349	16,684	18,493	20,704	22,555	25,093	25,662	22,494
South Carolina	58,532	60,928	70,645	75,099	78,716	86,865	96,437	100,539	127,514	140,826	159,830	156,263	144,120
South Dakota	24,533	25,820	27,413	25,159	27,639	26,974	28,256	27,735	28,815	33,826	36,319	31,832	34,077
Tennessee	155,623	160,667	167,737	169,418	181,476	201,499	226,025	232,212	234,288	247,857	256,148	265,011	277,275
Texas	2,981,167	3,030,914	3,209,968	3,313,837	3,377,093	3,482,821	3,709,715	3,485,246	3,696,396	3,877,376	4,093,357	4,364,728	4,412,636
Utah	75,650	81,879	92,890	103,628	119,625	114,601	106,474	105,052	109,866	119,879	121,937	121,403	124,093
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Virginia	66,181	70,579	77,254	83,011	89,072	95,700	121,702	115,887	121,928	128,748	136,523	144,014	155,658
Washington	64,934	70,343	81,431	86,834	105,789	108,108	116,879	127,230	139,421	144,521	149,992	156,663	170,448
West Virginia	179,969	192,221	188,602	190,264	182,515	179,084	183,109	151,078	183,003	169,841	181,278	178,380	199,141
Wisconsin	90,620	113,679	136,516	152,354	170,202	200,484	224,675	248,033	271,765	316,279	337,822	348,132	320,826
Wyoming	59,635	61,451	67,336	69,879	67,559	70,298	79,174	73,284	78,801	100,071	109,996	115,286	125,834
U.S. Total(c)	12,509,427	13,081,714	13,890,129	14,640,480	15,536,373	16,033,189	17,191,711	17,388,360	18,632,062	20,056,240	21,139,386	21,793,454	22,101,452

See notes and sources at end of table

Section XIII
Table 10b

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981 (a)	1982	1983	1984	1985
Alabama	272,068	274,761	264,088	225,979	241,237	237,258	283,435	269,240	271,280	240,957	221,583	231,997	219,455
Alaska	63,073	62,874	84,751	90,121	116,278	145,025	157,236	153,345	121,727	237,881	239,200	257,525	212,765
Arizona	214,323	192,446	156,222	171,275	167,092	175,041	172,738	165,850	182,533	135,031	115,233	121,149	130,776
Arkansas	327,803	290,393	258,220	248,941	229,558	220,699	250,747	273,720	264,787	226,941	206,966	210,021	195,633
California	2,045,627	1,834,413	1,832,849	1,756,611	1,772,041	1,563,172	1,810,381	1,807,731	1,858,178	1,682,718	1,535,031	1,669,705	1,846,078
Colorado	324,007	313,056	307,772	302,284	282,215	267,838	292,272	256,363	211,780	224,991	213,812	229,647	218,942
Connecticut	62,609	66,343	64,011	65,855	64,068	65,191	67,957	72,583	76,829	78,246	74,427	81,139	78,215
Delaware	22,949	20,365	18,603	19,182	15,787	20,626	24,981	29,797	30,643	27,833	34,884	42,962	38,493
Dist. of Col.	(b)	(b)	(b)	(b)	(b)	(b)	(b)	27,868	29,023	29,280	29,340	29,449	28,902
Florida	311,498	289,551	280,095	289,017	302,344	318,344	344,177	316,588	337,557	324,807	306,307	303,309	289,706
Georgia	348,089	330,339	326,559	261,320	264,665	278,272	312,299	315,201	316,613	294,651	295,531	307,323	281,805
Hawaii	-	-	-	-	-	-	-	3,131	2,899	2,804	2,669	2,375	2,483
Idaho	56,045	53,057	60,451	47,156	45,537	44,210	54,237	49,047	44,960	39,971	35,179	38,604	39,194
Illinois	1,150,266	1,149,394	1,095,115	1,175,235	1,167,099	1,174,934	1,142,732	1,089,720	1,061,957	994,179	938,340	1,032,779	962,039
Indiana	542,300	531,872	477,341	425,221	398,268	440,955	504,185	489,254	496,349	467,842	426,770	452,284	432,958
Iowa	364,640	367,595	345,798	311,425	280,246	238,229	291,521	269,581	253,231	237,089	220,517	234,846	225,903
Kansas	604,460	587,013	498,727	515,197	506,910	519,346	584,236	488,338	428,130	400,920	346,204	363,671	355,467
Kentucky	245,472	228,003	207,539	245,967	219,521	212,913	218,689	202,284	199,445	188,536	174,306	189,255	172,510
Louisiana	2,009,859	2,008,364	1,788,588	2,043,705	2,190,848	2,249,172	1,978,382	1,794,007	1,781,716	1,556,052	1,412,983	1,594,346	1,386,365
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	2,268	2,326	2,691	2,424	2,449	2,531
Maryland	201,961	199,331	165,932	176,272	158,838	161,695	201,584	160,244	175,289	157,990	145,628	158,989	150,838
Massachusetts	155,547	155,268	153,967	156,247	160,343	160,503	156,459	182,587	184,575	195,107	191,815	208,758	218,884
Michigan	920,351	936,043	884,184	888,035	741,295	789,594	875,726	865,137	800,873	748,141	696,455	718,103	709,232
Minnesota	360,811	351,644	331,186	320,156	293,381	313,229	334,202	285,846	266,282	262,039	240,777	255,638	257,480
Mississippi	313,992	276,199	230,053	199,122	197,689	203,719	254,366	263,530	242,987	269,131	237,859	268,560	226,663
Missouri	426,807	409,884	369,620	380,258	366,970	358,905	347,257	318,450	283,514	279,449	258,560	264,954	259,900
Montana	90,230	79,909	79,520	74,371	70,956	72,649	69,805	60,724	52,452	52,208	46,249	46,864	47,265
Nebraska	229,632	222,807	218,834	198,634	188,804	163,051	170,013	163,079	138,322	138,238	129,290	134,465	126,135
Nevada	73,072	63,438	61,251	66,797	71,052	64,506	84,433	58,454	73,182	46,627	41,926	42,256	39,200
New Hampshire	13,881	14,697	13,534	13,545	13,609	14,039	14,881	9,474	10,220	10,078	9,655	10,531	10,629
New Jersey	301,566	275,050	244,102	321,535	247,120	228,843	260,579	339,825	390,121	375,660	405,387	418,220	379,230
New Mexico	256,811	257,436	240,260	278,976	229,813	213,698	211,182	221,793	196,212	204,163	178,698	161,850	151,128
New York	682,547	627,493	576,883	595,933	561,698	569,702	623,891	737,443	760,463	775,268	720,398	790,011	762,621
North Carolina	160,871	140,217	114,822	101,175	72,527	81,989	130,884	153,316	152,496	142,129	136,579	143,854	133,825
North Dakota	32,428	35,459	36,826	41,177	37,650	39,067	29,236	22,848	34,445	28,370	26,126	30,153	28,096
Ohio	1,104,156	1,086,651	956,876	1,005,927	847,497	929,593	898,029	896,983	870,341	813,519	747,268	785,297	733,116
Oklahoma	611,738	660,010	668,819	760,110	766,986	770,249	824,908	722,318	670,971	676,762	628,950	652,953	587,407
Oregon	107,961	98,051	109,898	92,500	72,521	86,140	93,707	78,703	75,562	70,824	67,045	78,643	83,002
Pennsylvania	783,297	715,548	653,742	713,518	668,337	673,770	740,818	775,715	784,691	694,639	643,952	676,721	625,667
Rhode Island	20,559	23,781	23,129	20,697	25,631	23,042	27,219	27,630	29,202	27,874	29,044	31,689	29,874
South Carolina	153,147	131,991	122,949	148,989	138,585	117,573	119,319	142,228	141,924	98,100	101,632	108,429	97,469
South Dakota	31,221	32,076	32,534	39,207	36,097	35,423	25,724	24,078	22,056	25,069	23,326	24,592	25,202
Tennessee	293,620	260,171	217,328	212,326	202,135	184,048	226,477	229,661	223,529	207,161	194,610	206,353	190,266
Texas	4,621,378	4,463,488	3,944,377	3,975,307	4,143,023	4,211,432	4,001,355	4,091,099	3,926,687	3,394,404	3,241,515	3,432,624	3,385,715
Utah	123,106	121,015	124,160	146,205	106,315	118,513	126,047	115,092	102,239	117,706	110,185	115,578	115,117
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	3,991	4,383	4,370	4,359	4,868	4,998
Virginia	152,848	143,650	121,320	123,509	118,020	134,144	134,088	158,479	151,737	150,964	142,944	143,582	139,458
Washington	197,861	182,723	164,334	148,781	142,657	127,280	158,515	128,770	124,942	108,653	107,193	126,287	134,599
West Virginia	186,316	182,370	158,435	150,723	144,535	151,839	148,538	143,047	148,527	130,029	115,813	124,368	117,168
Wisconsin	367,961	381,148	364,801	315,154	349,160	370,726	367,517	351,857	324,611	312,007	299,099	305,076	308,365
Wyoming	108,599	95,746	87,188	86,819	83,623	87,292	93,797	68,975	69,056	90,923	80,871	85,423	82,172
U.S. Total(c)	22,049,363	21,223,133	19,537,593	19,946,496	19,520,581	19,627,478	20,240,761	19,877,293	19,403,858	18,001,055	16,834,914	17,950,524	17,280,943

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1986	1987	1988	1989	1990
Alabama	202,923	207,757	236,356	244,810	243,803
Alaska	206,452	249,269	287,648	321,529	342,585
Arizona	101,249	108,976	124,366	145,642	124,773
Arkansas	199,197	169,626	216,836	249,728	232,374
California	1,531,323	1,934,909	1,804,452	1,837,850	1,864,057
Colorado	197,847	210,046	227,584	242,931	239,112
Connecticut	78,903	91,842	88,130	95,052	97,634
Delaware	33,009	36,703	29,258	34,924	39,127
Dist. of Col.	29,586	30,988	32,719	33,422	28,864
Florida	288,541	300,339	293,433	323,591	327,023
Georgia	279,082	303,420	323,030	317,031	311,015
Hawaii	2,463	2,610	2,614	2,694	2,788
Idaho	34,721	37,147	40,736	45,640	45,512
Illinois	924,280	873,436	965,388	992,035	939,502
Indiana	395,181	412,588	456,812	461,993	450,954
Iowa	206,902	200,877	239,127	225,739	218,201
Kansas	312,680	325,866	352,924	340,878	352,780
Kentucky	167,173	171,910	184,078	188,518	184,333
Louisiana	1,438,563	1,500,679	1,445,703	1,515,107	1,571,003
Maine	2,473	2,641	3,197	3,678	4,354
Maryland	152,542	168,553	172,901	189,706	172,267
Massachusetts	186,350	226,820	210,975	249,459	258,214
Michigan	671,323	657,396	749,225	774,438	816,400
Minnesota	244,772	231,750	283,840	299,780	290,587
Mississippi	214,824	208,582	212,779	227,625	253,690
Missouri	241,660	231,941	252,923	261,268	238,709
Montana	41,148	38,786	41,825	45,756	43,169
Nebraska	104,732	102,719	121,979	120,235	111,063
Nevada	33,790	41,333	48,226	63,667	64,876
New Hampshire	10,291	11,970	13,009	13,945	14,274
New Jersey	353,465	421,400	414,279	456,474	427,842
New Mexico	134,198	153,247	173,450	195,736	238,531
New York	728,802	756,559	790,218	845,853	863,090
North Carolina	135,819	148,653	151,990	161,788	161,208
North Dakota	25,471	24,828	28,614	30,152	32,490
Ohio	716,778	714,929	805,309	814,123	746,719
Oklahoma	554,125	596,092	588,796	595,196	604,423
Oregon	70,973	80,249	87,163	108,028	101,829
Pennsylvania	609,953	626,770	668,661	681,909	656,240
Rhode Island	26,354	35,930	30,787	33,938	31,430
South Carolina	98,549	105,661	112,309	116,818	130,453
South Dakota	23,292	21,087	24,227	25,504	25,056
Tennessee	188,000	200,571	214,244	221,444	219,831
Texas	3,185,509	3,304,492	3,531,008	3,625,129	3,603,076
Utah	105,175	98,987	108,954	113,536	116,648
Vermont	5,019	5,181	5,551	6,151	6,766
Virginia	141,024	142,096	163,529	173,725	180,868
Washington	118,360	131,746	146,778	162,779	162,735
West Virginia	112,573	115,091	122,140	130,084	120,453
Wisconsin	278,848	280,184	317,146	330,792	309,080
Wyoming	75,029	81,704	82,363	82,362	92,190
U.S. Total(c)	16,221,296	17,136,938	18,029,588	18,780,192	18,714,003

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

(a) Included with New Hampshire.
(b) Included with Maryland.
(c) Total may not add due to independent rounding.
Note: Consumption includes volumes of natural gas which is distributed as a component of mixed gas.

SOURCE: 1947-1966: U.S. Bureau of Mines, Mineral Yearbooks--Fuels
1967-1990: U.S. Energy Information Administration, Natural Gas Annual

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	0.5	0.7	0.7	2.5	3.1	8.3	8.9	8.2	9.5	17.8	16.4	17.7	15.8	14.9
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	57.7	107.1
Arkansas	885.3	896.9	869.4	902.7	926.3	979.2	1,204.7	1,159.1	1,158.0	1,165.2	1,276.1	1,380.8	1,415.1	1,451.8
California	10,109.2	10,137.2	9,937.4	9,707.4	9,430.9	9,289.3	9,109.6	8,977.6	8,844.7	8,703.7	8,904.3	8,917.8	8,546.8	8,795.9
Colorado	330.1	1,341.9	1,220.4	1,109.4	1,132.3	1,157.9	1,854.2	1,922.4	2,241.3	2,409.6	2,367.8	2,336.5	2,482.6	2,031.7
Florida	0.7	1.2	2.4	2.2	2.3	3.0	2.5	2.0	3.2	2.7	2.2	2.8	2.4	1.8
Illinois	219.9	226.6	231.9	228.6	225.9	210.5	230.0	252.4	232.3	218.5	165.5	169.6	174.2	172.2
Indiana	12.9	21.5	25.1	31.0	30.6	35.5	35.6	35.9	32.9	33.6	30.8	30.4	34.9	33.9
Kansas	14,477.9	14,329.6	14,013.0	13,715.9	13,384.4	14,116.5	15,701.9	15,672.7	16,204.6	17,470.9	19,191.2	20,124.0	19,872.9	19,513.7
Kentucky	1,372.0	1,370.7	1,342.1	1,323.4	1,318.4	1,306.4	1,294.5	1,279.6	1,255.4	1,238.8	1,218.4	1,208.7	1,153.8	1,137.6
Louisiana	23,353.7	23,847.3	26,542.9	28,378.3	28,847.5	31,280.8	34,271.8	36,600.1	42,205.1	44,809.3	51,156.6	54,812.4	59,528.9	63,041.9
Michigan	167.6	182.0	213.7	194.0	201.9	253.2	274.0	328.3	324.1	359.8	441.6	495.4	512.6	582.6
Mississippi	2,439.4	2,490.7	2,515.2	2,505.5	2,426.7	2,351.2	2,555.2	2,757.6	2,594.2	2,390.3	2,285.3	2,584.3	2,473.0	2,528.5
Montana	696.7	848.0	799.1	793.0	823.6	823.1	759.9	719.8	715.8	692.6	666.8	678.3	661.9	622.8
Nebraska	0.6	1.6	8.0	43.9	95.3	93.4	181.1	191.9	202.3	224.2	188.3	142.5	132.0	117.2
New Mexico	5,957.8	5,575.9	6,207.1	6,952.7	11,527.0	13,962.6	17,427.0	17,147.0	18,484.0	23,345.2	22,137.1	21,065.0	17,815.5	15,519.0
New York	64.5	67.2	66.3	64.4	66.4	68.3	70.6	69.0	75.3	84.8	92.9	95.9	105.9	95.7
North Dakota	--	--	--	6.3	69.6	97.8	169.0	163.1	279.2	395.3	739.4	1,118.4	1,200.0	1,144.8
Ohio	607.9	626.0	649.0	655.3	685.4	727.5	751.9	770.5	805.5	849.0	896.9	813.6	744.7	761.4
Oklahoma	11,289.2	11,270.9	11,562.8	11,571.1	11,740.2	11,700.9	12,162.0	12,328.8	13,133.0	13,700.2	14,182.0	15,124.2	16,560.9	17,217.4
Pennsylvania	480.4	614.1	618.3	623.8	616.1	705.7	747.8	728.2	750.3	772.0	849.0	865.3	1,046.3	1,186.0
Texas	89,536.6	95,188.8	98,631.8	101,847.9	105,079.4	105,158.5	105,951.1	104,558.1	107,699.4	112,116.5	112,470.4	114,420.9	119,821.5	118,840.4
Utah	66.3	69.4	65.2	84.3	95.3	281.9	1,107.0	385.3	418.6	616.4	854.6	1,052.3	1,257.4	1,517.9
Virginia	--	--	--	--	9.9	27.9	28.4	31.5	34.6	35.4	37.3	38.2	38.4	33.1
West Virginia	1,771.1	1,727.7	1,705.9	1,641.7	1,662.4	1,651.1	1,645.0	1,598.6	1,556.4	1,553.3	1,552.5	1,549.2	1,584.9	1,821.2
Wyoming	1,185.3	2,082.4	2,161.9	2,183.1	2,327.6	2,308.5	2,724.8	2,839.6	3,178.7	3,218.4	3,438.7	3,630.0	3,826.2	3,913.4
Miscellaneous(a)	0.1	8.0	11.9	16.4	30.3	31.4	30.5	33.6	44.1	59.9	68.3	87.4	105.2	122.7
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL U.S.(b)	165,025.8	172,925.1	179,401.7	184,584.7	192,758.9	198,631.6	210,298.8	210,560.9	222,482.5	236,483.2	245,230.1	252,761.8	261,170.4	262,326.3

See notes and sources at end of table

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	13.3	12.8	19.4	19.6	24.0	14.4	9.1	16.1	56.7	162.0	180.5	245.7	327.4	507.4
Alaska	921.8	1,634.3	1,690.7	1,831.4	1,985.3	2,946.9	3,635.3	5,252.3	5,202.1	31,130.8	31,365.4	31,455.4	31,642.6	31,866.6
Arkansas	1,469.0	1,643.7	1,792.6	2,100.1	2,269.0	2,599.6	2,811.3	2,715.1	2,632.8	2,580.7	2,430.1	2,455.9	2,269.4	2,113.4
California	9,054.2	9,121.4	8,865.7	9,053.7	8,832.4	8,474.4	7,723.8	7,316.3	6,870.9	6,299.8	5,729.5	5,328.9	5,199.8	5,194.6
Colorado	2,158.9	2,204.8	1,876.1	1,729.3	1,717.6	1,651.4	1,769.3	1,660.1	1,596.3	1,628.8	1,818.3	1,655.2	1,868.3	1,881.7
Florida	1.4	0.5	0.6	1.0	4.0	5.4	1.1	0.9	4.7	61.1	178.7	180.6	148.9	308.9
Illinois	163.3	158.2	168.6	179.5	209.7	236.5	258.6	297.9	337.8	415.4	499.0	545.4	380.5	399.4
Indiana	32.1	49.6	60.2	71.3	72.4	71.2	74.8	75.5	77.6	82.7	86.7	87.3	66.7	64.1
Kansas	19,085.8	18,567.2	17,994.2	17,278.1	16,596.4	15,923.3	15,283.7	14,511.2	14,125.1	13,325.1	12,535.2	11,938.7	11,722.4	11,704.7
Kentucky	1,120.7	1,108.9	1,085.2	1,094.4	1,092.2	1,017.0	954.0	923.3	920.5	977.8	956.3	938.1	864.9	844.0
Louisiana	65,670.1	71,544.1	75,365.0	79,076.3	82,811.2	83,684.1	86,290.0	88,015.6	85,056.6	82,956.7	78,625.8	74,971.3	69,151.6	64,052.4
Michigan	663.0	647.0	722.8	774.3	745.8	773.1	760.9	757.4	751.0	939.7	1,016.5	1,296.8	1,548.5	1,458.3
Mississippi	2,832.5	2,735.8	2,481.6	2,355.8	1,973.4	1,668.9	1,597.0	1,434.1	1,410.9	1,333.9	1,117.4	1,104.3	1,178.2	1,079.4
Montana	593.1	600.2	598.1	590.3	595.9	620.4	837.7	911.5	1,110.2	1,099.9	1,024.6	1,064.0	1,092.4	901.3
Nebraska	103.7	100.2	100.0	93.4	79.6	72.8	63.8	56.8	56.6	58.2	59.4	50.3	48.8	54.6
New Mexico	14,677.6	14,112.7	15,037.8	15,354.4	15,374.6	14,753.1	15,092.5	15,143.2	14,281.5	13,290.0	13,068.0	12,335.6	12,488.4	11,944.9
New York	127.6	131.2	132.3	133.5	135.7	120.9	121.1	124.1	120.5	126.0	139.1	139.2	136.8	165.5
North Dakota	943.4	962.7	1,119.6	1,110.6	1,121.2	1,024.5	882.1	866.8	648.6	567.4	503.7	441.6	448.2	432.7
Ohio	729.9	727.9	748.2	709.4	754.8	755.2	762.7	783.9	809.3	993.5	1,068.4	1,146.7	1,179.4	1,308.2
Oklahoma	17,256.7	18,259.0	19,138.8	19,757.2	20,357.4	20,122.2	19,403.8	18,368.3	17,593.2	16,954.3	15,712.8	14,492.0	14,098.7	13,390.3
Pennsylvania	1,162.5	1,175.1	1,214.5	1,243.6	1,257.0	1,350.6	1,392.2	1,345.0	1,303.9	1,377.5	1,395.9	1,406.9	1,494.4	1,492.1
Texas	119,187.9	118,854.8	117,809.4	118,855.1	120,616.8	123,609.3	125,415.1	119,001.1	112,392.6	106,353.0	101,472.1	95,042.0	84,936.5	78,540.7
Utah	2,019.1	1,786.4	1,638.3	1,519.4	1,438.8	1,372.2	1,226.5	1,156.6	1,090.8	1,065.2	982.0	1,022.1	1,024.7	1,031.4
Virginia	33.9	33.0	31.3	32.2	32.5	37.6	37.8	34.3	31.4	32.5	31.1	35.9	37.3	44.7
West Virginia	2,008.0	2,026.0	2,311.2	2,347.9	2,494.0	2,622.2	2,580.0	2,585.6	2,447.3	2,436.4	2,411.8	2,346.0	2,319.8	2,265.6
Wyoming	4,104.6	3,931.2	3,988.5	3,768.6	3,703.3	3,594.0	3,685.5	3,768.5	3,937.0	4,243.3	4,131.5	4,088.7	4,109.5	3,917.4
Miscellaneous(a)	139.6	150.0	160.2	171.2	174.0	211.6	238.3	228.4	242.7	255.0	266.0	270.0	165.9	168.1
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL U.S.(b)	266,273.6	272,278.9	276,151.2	281,251.5	286,468.9	289,332.8	292,907.7	287,349.9	275,108.8	290,746.4	278,805.6	266,084.8	249,950.2	237,132.5

See notes and sources at end of table

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985		1986	1987
Alabama	771.0	707.2	530.0	514.0	652.0	636.0	648.0	648.0	785.0	961.0	821.0		951.0	842.0
Alaska	32,050.7	31,929.6	32,243.0	32,045.0	32,259.0	33,382.0	33,037.0	34,990.0	34,283.0	34,476.0	33,847.0		32,664.0	33,225.0
Arkansas	1,993.3	1,728.3	1,660.0	1,681.0	1,703.0	1,774.0	1,801.0	1,958.0	2,069.0	2,227.0	2,019.0		1,992.0	1,997.0
California	5,484.0	5,342.0	4,737.0	4,947.0	5,022.0	5,414.0	5,617.0	5,552.0	5,781.0	5,554.0	4,325.0	(d)	3,928.0	3,740.0
Colorado	1,893.0	1,887.8	2,512.0	2,765.0	2,608.0	2,922.0	2,961.0	3,314.0	3,148.0	2,943.0	2,881.0		3,027.0	2,942.0
Florida	266.9	257.5	151.0	119.0	77.0	84.0	69.0	64.0	49.0	65.0	55.0		49.0	49.0
Illinois	380.8	376.9	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)		(c)	(c)
Indiana	59.8	45.4	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)		(c)	(c)
Kansas	12,661.2	11,950.6	11,457.0	10,992.0	10,243.0	9,508.0	9,860.0	9,724.0	9,553.0	9,387.0	9,337.0		10,509.0	10,494.0
Kentucky	812.6	771.5	451.0	545.0	468.0	508.0	530.0	551.0	554.0	613.0	766.0		841.0	909.0
Louisiana	61,309.4	57,501.8	57,010.0	55,725.0	50,042.0	47,325.0	47,377.0	44,916.0	42,561.0	41,399.0	14,038.0	(d)	12,930.0	12,430.0
Michigan	1,606.7	1,598.1	1,386.0	1,422.0	1,204.0	1,406.0	1,118.0	1,084.0	1,219.0	1,112.0	985.0		1,139.0	1,451.0
Mississippi	1,207.6	1,061.3	1,437.0	1,635.0	1,504.0	1,769.0	2,035.0	1,796.0	1,596.0	1,491.0	1,360.0		1,300.0	1,220.0
Montana	930.0	1,106.3	887.0	926.0	825.0	1,287.0	1,321.0	847.0	896.0	802.0	857.0		803.0	780.0
Nebraska	55.8	59.2	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)		(c)	(c)
New Mexico	11,759.3	11,916.6	12,000.0	12,688.0	13,724.0	13,287.0	13,870.0	12,418.0	11,676.0	11,364.0	10,900.0		11,808.0	11,620.0
New York	215.8	236.0	165.0	193.0	211.0	208.0	264.0	229.0	295.0	389.0	369.0		457.0	410.0
North Dakota	416.8	405.9	361.0	374.0	439.0	537.0	581.0	629.0	600.0	566.0	569.0		541.0	508.0
Ohio	1,354.0	1,350.6	495.0	684.0	1,479.0	1,699.0	965.0	1,141.0	2,030.0	1,541.0	1,331.0		1,420.0	1,069.0
Oklahoma	13,083.0	12,435.3	13,889.0	14,417.0	13,816.0	13,138.0	14,699.0	16,207.0	16,211.0	16,126.0	16,040.0		16,685.0	16,711.0
Pennsylvania	1,682.5	1,651.9	769.0	899.0	1,515.0	951.0	1,264.0	1,429.0	1,882.0	1,575.0	1,617.0		1,560.0	1,647.0
Texas	71,036.9	64,651.4	56,422.0	55,583.0	53,021.0	50,287.0	50,469.0	49,757.0	50,052.0	49,883.0	41,775.0	(d)	40,574.0	38,711.0
Utah	917.4	829.9	877.0	925.0	948.0	1,201.0	1,912.0	2,161.0	2,333.0	2,080.0	1,999.0		1,895.0	1,947.0
Virginia	47.5	56.4	(c)	(c)	(c)	(c)	(c)	122.0	175.0	216.0	235.0		253.0	248.0
West Virginia	2,311.3	2,273.3	1,567.0	1,634.0	1,558.0	2,422.0	1,834.0	2,148.0	2,194.0	2,136.0	2,058.0		2,148.0	2,242.0
Wyoming	3,703.2	3,704.4	6,305.0	7,211.0	7,526.0	9,100.0	9,307.0	9,758.0	10,227.0	10,482.0	10,617.0		9,756.0	10,023.0
Miscellaneous(a)	189.4	191.0	102.0	109.0	153.0	176.0	191.0	69.0	78.0	75.0	76.0		133.0	65.0
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	34,492.0		34223	31,931.0
TOTAL U.S.(b)	228,200.2	216,026.1	207,413.0	208,033.0	200,997.0	199,021.0	201,730.0	201,512.0	200,247.0	197,463.0	193,369.0		191,586.0	187,211.0

See notes and sources at end of table

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1988	1989	1990
Alabama	809.0	819.0	4,125.0 (d)
Alaska	9,078.0 (f)	8,939.0	9,300.0
Arkansas	1,986.0	1,772.0	1,731.0
California	3,519.0	3,374.0	3,185.0
Colorado	3,535.0	4,274.0	4,555.0
Florida	51.0	46.0	45.0
Illinois	(c)	(c)	(c)
Indiana	(c)	(c)	(c)
Kansas	10,104.0	10,091.0	9,614.0
Kentucky	923.0	992.0	1,016.0
Louisiana	12,224.0	12,516.0	11,728.0
Michigan	1,323.0	1,342.0	1,243.0
Mississippi	1,143.0	1,104.0	1,126.0
Montana	819.0	867.0	899.0
Nebraska	(c)	(c)	(c)
New Mexico	17,166.0	15,434.0	17,260.0
New York	351.0	368.0	354.0
North Dakota	541.0	561.0	586.0
Ohio	1,229.0	1,275.0	1,214.0
Oklahoma	16,495.0	15,916.0	16,151.0
Pennsylvania	2,072.0	1,642.0	1,720.0
Texas	38,167.0	38,381.0	38,192.0
Utah	1,298.0	1,507.0	1,510.0
Virginia	230.0	217.0	138.0
West Virginia	2,306.0	2,201.0	2,207.0
Wyoming	10,308.0	10,744.0	9,944.0
Miscellaneous(a)	83.0	83.0	70.0
Federal Offshore(e)	32,264.0	32,651.0	31,433.0
TOTAL U.S.(b)	168,024.0	167,116.0	169,346.0

(a) Includes Arizona, Iowa, Maryland, Minnesota, Missouri, Oregon, South Dakota, Tennessee and Washington.

(b) Totals may not add due to independent rounding.

(c) Included in Miscellaneous.

(d) Beginning in 1985, figures for California, Louisiana, and Texas include offshore reserves in state waters only.

(e) Federal Offshore is a designation begun in the 1986 reported data. This number includes all state offshore reserves in federal waters, which accounts for the large decline in certain states beginning in 1985.

(f) An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during the last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

SOURCE: 1947-1976: API, AGA and CPA, Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada, Annuals.
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas And Natural Gas Liquids Reserves, Annuals.

Section XIII
Table 12

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1960		1970		1980		1983	
Company	Production	Company	Production	Company	Production	Company	Production
Exxon(b)	574,328	Exxon(b)	2,003,120	Exxon	1,231,145	Exxon	855,925
Standard of Ind.	573,050	Texaco(b)	1,399,410	Texaco(b)	955,570	Standard of Ind.	651,525
Phillips	501,853	Standard of Ind.	1,114,710	Standard of Ind.	820,520	Texaco(b)	582,540
Texaco(b)	499,971	Gulf	1,006,305	Mobil	711,750	Shell	539,105
Mobil(c)	398,945	Shell	930,020	Gulf(e)	660,030	Mobil	467,930
Shell	389,384	Mobil	813,585	Shell	649,700	Gulf(e)	465,740
Gulf(b)	365,000	Atlantic Richfield	728,905	Atlantic Richfield(b)	447,855	Atlantic Richfiel	453,159
Cities Service	323,564	Phillips	580,715	Standard of Calif.(b)	444,935	Standard of Calif.	421,968
Sun	273,694	Union	567,247	Union	425,225	Tenneco	357,149
Standard of Calif.	249,126	Standard of Calif.	537,645	Tenneco	406,769	Unocal (Union)(e)	298,351
Superiod(c)	233,999	Sun(d)	525,965	Sun(b)	382,520	Phillips	291,635
United Gas Corp.(d)	204,000	Getty	439,832	Phillips	344,195	Sun	270,830
Atlantic Richfield	186,040	Cities Service	368,614	Getty	312,171	Getty	266,774
Continental	161,477	Superior	338,836	Cities Service(e)	296,125	Occidental(e)	239,440
Sinclair	155,941	Continental	308,060	Conoco	283,970	Superior	234,732
Sunray-DX(d)	151,663	Tenneco	291,529	El Paso	283,000	DuPont(e)	213,160
Tidewater(d)	139,517	El Paso	219,730	Superior	283,000	El Paso	153,000
Union	124,963	Pennzoil-United	215,715	Pennzoil	213,825	Texas Oil & Gas	149,507
Skelly(d)	124,493	Marathon	171,597	Marathon	164,159	U.S. Steel	129,515
Pure(d)	114,614	Amerada Hess	160,892	Columbia(f)	156,698	Pennzoil	118,051
U.S. TOTAL	12,771,038	U.S. TOTAL	21,920,642	U.S. TOTAL	19,602,000	U.S. TOTAL	16,033,000

See notes and sources at end of table

Section XIII
Table 12a

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1984		1985		1986		1987	
Company	Production	Company	Production	Company	Production	Company	Production
Texaco	964,726 (2)	Chevron	765,770	Chevron	718,320	Chevron	708,465
Exxon	907,025	Exxon	761,025	Exxon	700,435	Mobil	656,635
Chevron(h)	903,302	Texaco(g)	755,915	Shell	653,715	Texaco	644,590
Mobil(i)	750,440	Amoco (Std. of Ind.)	682,185	Amoco	631,815	Exxon	619,770
Standard of Ind.	693,500	Mobil	603,345	Texaco	613,930	Amoco	617,000
Shell	589,475	Shell	601,885	Mobil	546,770	Shell	558,085
Atlantic Richfield	501,462	Atlantic Richfield	434,355	ARCO	454,060	ARCO	464,280
Tenneco	433,601	Tenneco	375,692	Tenneco	364,677	Tenneco	368,377
Phillips(j)	372,994	Phillips	319,740	USX (U.S. Steel)(o)	308,042	Phillips(k)	281,780
Unocal	304,666	Unocal	287,255	Phillips	299,300	Occidental(k)	281,415
Sun	286,160	Sun	239,440	Unocal	248,930	USX	274,480
Occidental(k)	248,565	DuPont(k)	230,680	DuPont	248,000	Unocal	271,925
DuPont(k)	247,105	Occidental(k)	219,365	Occidental	244,185	Sun	230,315
Texas Oil & Gas	177,173	Texas Oil and Gas	198,475	Sun	219,000	DuPont(k)	219,365
U.S. Steel(l)	150,937	Consolidated Oil and Gas	150,100	Burlington Northern(p)	145,000	Burlington Northern	151,000
Pennzoil	144,329	Pennzoil	138,438	Enron	127,276	Union Pacific	124,830
Consolidated Natural Gas	126,600	U.S. Steel	137,712	Union Pacific	122,700	Enron	120,450
Columbia(m)	125,462	Union Pacific	115,194	Pennzoil	116,760	Pennzoil	115,052
Union Pacific	121,363	Enron Corp.(n)	109,309	Mesa(q)	112,367	Consolidated Natural Gas	109,562
El Paso	107,000	El Paso	107,000	Consolidated Natural Gas	112,000	Mesa	103,797
U.S. TOTAL	17,231,000	'J.S. TOTAL	16,428,000	U.S. TOTAL	16,036,000	U.S. TOTAL	16,334,000

See notes and sources at end of table

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1988		1989	
Company	Production	Company	Production
Texaco	847,000	Chevron	880,745
Chevron	738,760	Amoco	756,280
Amoco(r)	695,325	Texaco	729,000
Exxon	658,825	Exxon	666,855
Mobil	658,000	Mobil	644,000
Shell	579,620	ARCO	558,085
ARCO	506,985	Shell	532,535
USX	312,440	USX	333,245
Phillips(k)	310,615	Phillips(k)	319,010
Occidental(k)	281,050	Unocal	277,035
Unocal	261,705	DuPont(k)	273,750
Oryx Energy (Sun)(s)	246,010	Oryx Energy	269,735
DuPont	237,250	Occidental(k)	266,450
Union Pacific	144,540	Union Pacific	153,300
Consolidated Natural Gas(t)	136,000	Consolidated Natural Gas(t)	147,000
Anadarko	128,537	Anadarko	141,147
Pennzoil	126,838	Mesa	137,167
Enron	121,925	Pennzoil	134,781
Mesa	116,414	Enron	123,319
Amerada Hess	103,337	Amerada Hess	122,316
U.S. TOTAL	16,992,000	U.S. TOTAL	17,115,000

See notes and sources at end of table

Section XIII
Table 12c

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

(a) Reported on a "dry" gas basis unless otherwise noted.
(b) Natural gas sales.
(c) Gross.
(d) Includes Canadian production.
(e) Volume before extraction of natural gas liquids.
(f) Includes synthetic gas.
(g) Sales. Texaco's figure also includes 100% of Getty Oil Company's estimated annualized production. (Texaco acquired Getty on March 1, 1984)
(h) Standard Oil of California acquired the Gulf Corporation on June 15, 1984, and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure includes 100% of Gulf's annualized production before the extraction of natural gas liquids.
(i) Mobil acquired Superior on September 23, 1984. Mobil's figure includes 100% of Superior's estimated annualized production.
(j) Phillips acquired Aminoil from R.J. Reynolds on October 26, 1984. Phillips' figure includes 100% of Aminoil's estimated annualized production.
(k) Volume before extraction of natural gas liquids.
(l) U.S. Steel acquired the U.S. assets of Husky Oil Ltd. on May 31, 1984. U.S. Steel's figure includes 100% of Husky's estimated annualized production of its U.S. assets.
(m) Includes synthetic gas and liquified petroleum gas.
(n) Formerly HNG/InterNorth, Inc. On June 1, 1985 InterNorth Inc. acquired the Houston Natural Gas Corporation and changed its name to reflect the acquisition. By April 1986 the corporation changed its name to Enron Corporation. Enron's figure includes Houston Natural Gas's 1985 full-year production. Enron's figure also includes cost and non-cost of service production.
(o) On February 11, 1986 a subsidiary of U.S. Steel merged with Texas Oil and Gas Corp. (TXO). On July 8,1986, in recognition of its major diversification into oil and gas businesses, U.S. Steel changed its name to USX Corporation.
(p) On December 13, 1985 Southland Royalty became a wholly-owned subsidiary of Burlington Northern Inc. (BNI). BNI also is the parent company of El Paso Natural Gas Company.
(q) On June 30, 1986, Mesa acquired the assets of Pioneer Corporation. Mesa's figure includes 100% of Pioneer's estimated annualized production.
(r) Figure includes certain oil and gas prpoperties acquired from Tenneco in 1988.
(s) On November 1, 1988 Oryx Energy Company acquired Sun Company's domestic oil and gas exploration and production business. Oryx's figure includes 201,054 million cubic feet of natural gas produced by the Sun Company during the first 10 months of 1988.
(t) Includes cost and non-cost of service production.

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R

Average Price of Natural Gas Delivered to Residential Consumers by State
(In Dollars per Thousand Cubic Feet)

State	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Alabama	1.13	1.10	1.09	1.13	1.19	1.27	1.37	1.55	1.57	1.99	2.31	2.71
Alaska	1.51	1.52	1.52	1.52	1.53	1.55	1.57	1.58	1.63	1.65	1.71	1.76
Arizona	0.96	0.97	1.04	1.20	1.23	1.24	1.37	1.50	1.53	2.12	2.61	3.07
Arkansas	0.72	0.70	0.71	0.75	0.79	0.83	0.87	1.06	1.12	1.23	1.98	1.96
California	0.93	0.93	0.93	0.99	1.03	1.08	1.16	1.38	1.57	1.77	1.89	1.99
Colorado	0.66	0.68	0.69	0.72	0.75	0.78	0.83	1.00	1.16	1.27	1.62	1.94
Connecticut	1.83	1.81	1.82	1.91	2.07	2.09	2.25	2.79	3.29	3.41	4.34	4.47
Delaware	1.60	1.59	1.50	1.58	1.63	1.71	1.85	2.11	2.43	2.61	3.25	4.06
District of Columbia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Florida	2.26	2.59	2.48	2.51	2.54	2.66	2.70	2.85	2.74	2.81	3.53	3.54
Georgia	1.03	1.02	1.02	1.05	1.13	1.26	1.30	1.40	1.50	1.69	1.97	2.33
Hawaii	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Idaho	1.29	1.36	1.37	1.39	1.49	1.51	1.52	1.80	2.18	2.24	2.86	3.41
Illinois	1.02	1.02	1.00	1.05	1.07	1.13	1.21	1.35	1.61	1.90	2.21	2.50
Indiana	0.98	0.94	0.94	1.01	1.08	1.14	1.20	1.28	1.45	1.69	2.02	2.17
Iowa	0.93	0.93	0.94	0.97	1.03	1.11	1.17	1.22	1.43	1.61	1.93	2.25
Kansas	0.59	0.63	0.64	0.68	0.72	0.74	0.75	0.90	1.03	1.48	1.73	1.77
Kentucky	0.84	0.79	0.80	0.83	0.88	0.93	0.99	1.10	1.23	1.32	1.79	1.94
Louisiana	0.75	0.75	0.75	0.77	0.84	0.91	0.97	1.12	1.37	1.57	1.97	2.47
Maine	1.96 (b)	2.05 (b)	1.97 (b)	1.99 (b)	2.05 (b)	2.14 (b)	2.17 (b)	2.38 (b)	2.65 (b)	2.68 (b)	3.62 (b)	3.57 (b)
Maryland	1.44 (c)	1.42 (c)	1.42 (c)	1.45 (c)	1.51 (c)	1.65 (c)	1.68 (c)	0.50 (c)	2.33 (c)	2.57 (c)	3.18 (c)	3.40 (c)
Massachusetts	1.88	1.86	1.86	1.92	2.12	2.29	2.40	2.71	3.15	3.64	3.95	4.17
Michigan	0.98	0.98	0.98	1.01	1.06	1.10	1.18	1.37	1.62	1.90	2.22	2.31
Minnesota	1.03	1.03	1.07	1.10	1.18	1.23	1.30	1.41	1.57	1.74	2.13	2.41
Mississippi	0.88	0.97	0.88	0.88	0.94	1.08	1.09	1.23	1.41	1.71	2.11	2.40
Missouri	0.84	0.86	0.89	0.96	1.02	1.10	1.16	1.27	1.49	1.70	2.18	2.29
Montana	0.80	0.82	0.88	0.91	0.93	0.97	1.09	1.12	1.30	1.36	1.82	1.89
Nebraska	0.79	0.80	0.83	0.85	0.92	0.99	1.04	1.14	1.28	1.37	1.80	1.97
Nevada	1.42	1.51	1.49	1.51	1.51	1.52	1.54	1.72	1.95	2.04	2.78	2.80
New Hampshire	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
New Jersey	1.91	1.91	1.85	1.89	1.95	2.02	2.08	2.25	2.69	3.14	3.42	3.53
New Mexico	0.91	0.89	0.91	0.93	0.95	0.97	1.00	1.24	1.33	1.36	2.11	2.50
New York	1.42	1.38	1.37	1.40	1.50	1.62	1.74	2.00	2.54	2.87	3.28	3.68
North Carolina	1.31	1.29	1.25	1.30	1.34	1.41	1.51	1.69	2.02	2.13	2.81	3.00
North Dakota	0.94	0.93	0.95	1.02	1.10	1.13	1.14	1.19	1.51	1.79	2.11	2.33
Ohio	0.86	0.85	0.87	0.90	0.98	1.05	1.11	1.24	1.50	1.77	2.21	2.43
Oklahoma	0.78	0.77	0.82	0.84	0.87	0.90	0.92	1.05	1.22	1.50	1.78	1.93
Oregon	1.57	1.54	1.49	1.51	1.60	1.68	1.76	2.00	2.20	2.68	3.43	3.83
Pennsylvania	1.15	1.15	1.18	1.24	1.28	1.36	1.48	1.66	1.93	2.14	2.51	2.63
Rhode Island	1.81	1.78	1.78	1.83	1.93	2.05	2.37	2.55	3.09	3.36	4.23	4.18
South Carolina	1.40	1.32	1.33	1.35	1.47	1.62	1.65	1.97	2.13	2.29	2.87	3.00
South Dakota	0.99	0.99	1.01	1.04	1.10	1.13	1.19	1.29	1.40	1.50	1.83	2.10
Tennessee	0.90	0.88	0.89	0.91	0.98	1.02	1.08	1.17	1.29	1.61	2.09	2.14
Texas	0.87	0.87	0.90	0.92	0.99	1.01	1.04	1.17	1.52	1.99	2.39	2.73
Utah	0.68	0.74	0.83	0.85	0.87	0.90	0.99	1.07	1.22	1.38	1.64	1.93
Vermont	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Virginia	1.46	1.44	1.43	1.49	1.52	1.60	1.68	1.87	2.24	2.54	3.03	3.27
Washington	1.48	1.43	1.36	1.40	1.43	1.47	1.55	1.77	2.27	2.70	3.12	3.48
West Virginia	0.84	0.87	0.88	0.89	0.94	0.96	0.97	1.10	1.45	1.67	2.55	2.61
Wisconsin	1.02	1.10	1.16	1.25	1.26	1.34	1.43	1.50	1.75	2.11	2.50	2.68
Wyoming	0.66	0.67	0.68	0.68	0.71	0.74	0.77	0.85	1.02	1.18	1.59	1.91
Total	1.04	1.04	1.05	1.09	1.15	1.21	1.29	1.43	1.71	1.98	2.35	2.56

See notes and sources at end of table

Average Price of Natural Gas Delivered to Residential Consumers by State
(In Dollars per Thousand Cubic Feet)

State	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	3.65	4.04	4.77	5.58	6.22	6.26	6.41	6.52	6.64	6.51	6.27	6.57
Alaska	1.71	1.73	1.95	1.79	2.33	2.49	2.81	3.25	3.21	3.46	3.63	3.79
Arizona	3.50	4.05	4.63	5.92	6.63	7.16	7.00	6.28	6.11	6.99	6.94	6.85
Arkansas	1.57	2.47	3.04	3.82	4.40	4.37	4.43	4.83	4.63	4.81	4.85	5.10
California	2.47	3.51	3.74	4.43	5.41	5.84	5.72	5.14	5.26	5.64	5.59	5.78
Colorado	2.48	3.23	4.17	4.89	5.51	5.24	5.10	5.01	4.74	4.42	4.63	4.57
Connecticut	4.74	5.84	6.85	8.51	9.70	8.80	9.15	8.83	8.21	7.87	8.25	8.58
Delaware	4.03	4.30	5.53	6.04	6.59	6.67	7.06	7.09	6.32	6.00	6.42	6.13
District of Columbia	(a)	4.57	5.50	6.64	8.10	8.05	7.91	7.52	7.09	6.96	7.44	7.18
Florida	3.70	4.80	5.31	6.59	6.85	7.18	7.46	7.20	7.48	7.49	8.06	8.47
Georgia	2.88	3.67	4.34	5.33	6.10	6.41	6.60	6.63	6.34	6.22	6.24	6.82
Hawaii	NA	12.99	15.57	15.70	16.46	17.36	18.12	16.09	15.90	15.69	15.66	16.45
Idaho	3.73	4.97	5.57	6.92	7.38	6.89	6.89	6.02	5.50	5.49	5.05	5.05
Illinois	3.01	3.61	4.05	4.73	5.46	5.37	5.55	5.07	4.81	4.60	4.92	5.06
Indiana	2.65	3.15	3.60	4.38	5.49	5.69	5.54	5.52	4.95	5.16	5.51	5.38
Iowa	2.68	3.19	3.89	4.69	5.52	5.56	5.39	5.12	4.75	4.79	4.70	4.99
Kansas	1.95	2.36	3.03	4.06	4.68	4.49	4.12	3.89	4.09	4.02	4.17	4.48
Kentucky	2.35	3.03	3.49	4.46	5.30	5.20	5.31	4.93	4.53	4.48	4.68	4.93
Louisiana	2.71	3.40	4.15	5.32	6.12	5.96	5.67	5.77	5.56	5.74	5.97	6.09
Maine	4.10 (b)	6.34	7.45	8.63	9.82	9.58	9.07	8.51	8.04	7.26	7.16	7.61
Maryland	3.76 (c)	4.46	5.07	6.12	7.42	7.44	7.25	6.88	6.37	5.90	6.30	6.45
Massachusetts	4.55	5.42	6.37	7.54	8.32	7.83	7.83	7.41	6.64	6.47	7.16	7.82
Michigan	2.64	3.19	3.84	4.79	5.84	5.97	6.29	5.74	5.46	5.34	5.19	5.02
Minnesota	2.86	3.22	4.09	4.96	5.90	6.00	5.80	5.28	4.58	4.64	4.57	4.63
Mississippi	2.83	3.47	3.99	4.93	5.88	5.52	5.46	5.59	6.10	5.85	5.10	5.33
Missouri	2.75	3.28	4.02	5.20	6.12	5.85	5.49	5.03	4.78	4.76	4.84	5.21
Montana	2.21	3.05	3.75	4.45	4.62	4.86	4.81	4.45	4.41	4.30	4.37	4.59
Nebraska	2.30	2.72	3.45	4.15	4.95	5.09	5.01	4.59	4.36	4.46	4.48	4.60
Nevada	2.83	4.06	4.84	5.56	6.81	6.95	7.04	5.96	5.31	5.87	5.55	5.66
New Hampshire	(4)	4.66	5.68	6.85	7.47	7.02	7.15	7.07	6.50	6.28	6.85	7.41
New Jersey	4.30	5.06	5.87	7.03	7.43	7.30	7.49	7.35	6.60	6.32	6.51	6.60
New Mexico	2.73	3.32	3.86	4.94	5.50	5.90	6.08	5.72	4.98	5.23	5.73	5.67
New York	4.12	4.95	5.50	6.51	7.87	7.64	7.74	7.46	6.88	6.50	7.22	7.40
North Carolina	3.52	4.11	5.17	5.73	6.65	6.68	6.60	6.62	6.66	6.25	6.55	6.17
North Dakota	2.88	3.85	4.28	4.61	5.56	6.38	5.59	5.29	5.47	5.15	4.68	4.70
Ohio	2.81	3.54	3.97	4.96	6.08	6.07	6.04	5.80	5.35	5.21	5.32	5.29
Oklahoma	2.20	2.46	2.94	3.53	4.33	4.56	4.58	5.01	4.63	4.52	4.50	4.80
Oregon	4.12	5.60	6.06	6.92	7.23	7.18	6.93	6.61	6.62	6.79	6.19	6.27
Pennsylvania	3.19	3.80	4.51	5.42	6.44	6.56	6.72	6.39	6.03	5.79	6.14	6.61
Rhode Island	3.67	5.69	6.61	7.95	8.66	7.50	7.87	7.46	6.81	6.60	7.13	7.22
South Carolina	3.50	4.19	4.90	5.51	6.38	6.62	6.62	6.54	6.59	6.73	6.73	7.17
South Dakota	2.61	3.13	3.91	4.71	5.59	6.16	5.75	5.26	4.87	4.91	4.85	5.14
Tennessee	2.37	2.89	3.44	4.32	5.26	5.04	5.12	4.97	4.68	4.65	4.83	5.11
Texas	3.21	3.40	4.20	5.21	5.55	5.82	5.77	5.31	5.20	5.37	5.55	5.78
Utah	2.22	2.74	3.23	3.41	4.26	5.68	4.86	4.64	4.97	5.11	5.14	5.28
Vermont	(d)	6.22	7.00	7.24	6.79	6.30	6.28	6.28	6.23	5.65	5.62	5.79
Virginia	3.71	4.26	4.66	6.02	7.03	6.99	7.02	6.49	5.86	5.81	6.59	6.75
Washington	3.95	5.31	6.02	6.87	6.87	6.84	6.60	5.93	5.42	5.50	5.49	5.02
West Virginia	2.93	3.59	4.24	5.20	6.00	6.12	6.39	6.34	5.98	5.50	5.73	6.46
Wisconsin	3.06	3.83	4.77	5.64	6.48	6.51	6.47	6.20	6.00	5.89	5.64	5.74
Wyoming	2.51	2.81	3.51	4.53	5.13	5.84	5.17	4.93	4.70	4.48	4.71	4.84
Total	2.98	3.68	4.29	5.17	6.06	6.12	6.12	5.83	5.54	5.47	5.64	5.80

See notes and sources at end of table

Average Price of Natural Gas Delivered to Residential
(In Dollars per Thousand Cubic Feet)

NA = Not Available
(a) Included in Maryland averages.
(b) Averages include New Hampshire and Vermont.
(c) Averages include the District of Columbia.
(d) Included in Maine averages.

SOURCE: U.S. Energy Information Administration, Natural Gas Annuals.

Historical United States Gross and Marketed Production of Natural Gas: 1935-1946
(Millions of Cubic Feet)

Year	Gross Production	Repressuring	Vented and Flared(a)	Marketed Production(b)
1935	2,498,005	90,290	479,826	1,927,889
1936	2,633,835	73,507	392,528	2,178,800
1937	3,032,410	84,925	526,159	2,421,326
1938	3,061,200	101,551	649,106	2,310,543
1939	3,333,500	171,401	677,311	2,484,788
1940	3,694,100	362,916	655,967	2,675,217
1941	4,103,500	644,379	630,212	2,828,909
1942	4,453,900	752,619	626,782	3,074,499
1943	5,160,650	824,803	902,115	3,433,642
1944	5,614,220	882,979	1,010,285	3,720,956
1945	5,902,180	1,061,951	896,208	3,944,021
1946	6,190,200	1,038,242	1,102,033	4,049,925

(a) Partly estimated; includes direct losses on producing properties and residue blown to the air.
(b) Marketed production equals gross production, less amounts used for repressuring, vented and flared.

SOURCE: U.S. Bureau of Mines, Mineral Industry Surveys, Natural Gas Annuals.

BASIC PETROLEUM DATA BOOK

SECTION XIV. OPEC

Table 1. OPEC Crude Oil Reserves
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Section XIV
Table 1

OPEC Crude Oil Reserves Annually as of January 1
(Millions of Barrels)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC
1960	50,000	62,000	6,500	35,000	25,000	18,000	-	-	-	-	-	-	-	-	196,500
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	-	-	-	-	-	-	-	201,000
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	-	-	-	-	-	214,300
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	-	-	-	-	-	220,000
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000	-	-	-	-	-	232,950
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	-	-	-	-	-	238,500
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	-	-	-	-	-	239,650
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	-	-	-	-	278,900
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	-	-	-	-	299,450
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	-	-	-	326,225
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000	-	-	-	391,750
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000 (j)	9,300	-	-	431,900
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	-	-	425,251
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,870
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19 500	1,700	2,125	440,395
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,600	29,411	8,440	17,400	1,100	500	435,591
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355
1982	164,600	64,480	6,500	57,000	29,700	20,300	3,434	22,600	9,800	32,176	8,080	16,500	850	480	436,500
1983	162,400	64,230	5,840	55,308	41,000	21,500	3,425	21,500	9,550	32,354	9,440	16,750	1,400	460	445,157
1984	166,000	63,900	5,695	51,000	43,000	24,850	3,330	21,270	9,100	32,240	9,220	16,550	1,675	490	448,320
1985	169,000	90,000	5,420	48,500	44,500	25,845	3,350	21,100	8,650	32,390	9,000	16,650	1,400	510	476,315
1986	168,800	89,774	5,380	47,876	44,110	25,591	3,300	21,300	8,500	32,890	8,820	16,600	1,650	520	475,111
1987	166,574	91,916	5,212	48,800	47,100	25,500	3,154	21,300	8,300	33,050	8,800	16,000	1,672	645	478,023
1988	166,980	91,320	5,210	92,850	100,000	56,300	3,150	21,000	8,400	97,705	8,500	15,980	1,615	645	670,255
1989	169,970	91,920	5,210	92,850	100,000	58,084	3,150	22,000	8,250	97,705	8,400	16,000	1,350	720	675,609
1990	254,959	94,525	5,200	92,860	100,000	58,504	4,500	22,800	8,200	97,705	9,200	16,000	1,514	733	766,700
1991	257,504	94,525	5,000	92,850	100,000	59,040	4,500	22,800	11,050	97,700	9,200	17,100	1,420	730	773,419
1992	257,842	94,000	5,000	92,860	100,000	59,100	3,729	22,800	6,581	97,700	9,200	17,900	1,550	730	769,392

(a) Original member 1960.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Government estimate

SOURCE: Oil and Gas Journal, "Worldwide Report" issue

OPEC Crude Oil Production
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC
1960	1,247	1,624	136	1,054	967	2,846	-	-	-	-	-	-	-	-	7,874
1961	1,393	1,644	179	1,183	1,002	2,920	176	-	-	-	-	-	-	-	8,497
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	-	-	-	-	-	9,954
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	-	-	-	-	-	10,865
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	-	-	-	-	-	12,082
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	-	-	-	-	-	13,177
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	-	-	-	-	-	14,217
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	-	-	-	-	15,631
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	-	-	-	-	17,660
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	-	-	-	20,341
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	-	-	-	22,134
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	-	-	25,092
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	-	-	26,711
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371
1979	9,251	2,213	568	3,168	3,477	2,356	508	2,092	1,591	1,831	1,137	2,302	214	203	30,911
1980	9,631	1,389	544	1,662	2,514	2,165	471	1,830	1,576	1,702	1,020	2,058	204	175	26,941
1981	9,625	947	370	1,381	993	2,108	405	1,137	1,604	1,500	803	1,445	211	151	22,680
1982	6,327	663	317	2,282	972	1,893	328	1,183	1,314	1,248	701	1,298	211	154	18,891
1983	4,867	881	390	2,492	922	1,781	295	1,076	1,385	1,119	699	1,241	236	157	17,541
1984	4,444	912	410	2,187	1,203	1,813	399	1,073	1,466	1,097	638	1,393	253	152	17,440
1985	3,290	862	355	2,258	1,437	1,621	302	1,069	1,235	1,146	645	1,464	280	153	16,117
1986	4,935	1,344	332	1,929	1,746	1,576	342	1,137	1,264	1,331	671	1,461	289	180	18,537
1987	4,067	1,034	391	2,451	2,076	1,572	308	972	1,191	1,454	635	1,286	167	156	17,760
1988	5,128	1,255	311	2,284	2,599	1,661	315	1,054	1,159	1,506	633	1,379	309	175	19,768
1989	4,904	1,602	397	2,858	2,809	1,713	378	1,096	1,217	1,882	695	1,639	287	220	21,696
1990	6,287	1,073	298	3,076	1,948	2,103	385	1,350	1,249	2,062	765	1,779	285	278	22,940

(a) Original member 1960.

(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.

(c) Joined in 1961.

(d) Joined in 1962.

(e) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.

(f) Joined in 1969.

(g) Joined in 1971.

(h) Joined in 1973.

(i) Joined as an associate member in 1973 and became a full member in 1975.

SOURCE: 1960-1978: U.S. Energy Information Administration
1979-1990: CIA, International Energy Statistical Review

Section XIV
Table 3

United States Total Petroleum Imports from OPEC Nations
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Petroleum Imports
1960	79	146	45	36	17	832	-	-	-	8	-	-	-	-	1,163	1,815
1961	69	130	53	60	25	800	36	-	-	-	-	-	-	-	1,173	1,917
1962	73	120	43	49	2	907	27	19	67	-	-	-	-	-	1,307	2,082
1963	86	89	44	62	1	899	17	19	59	-	-	-	-	-	1,276	2,123
1964	106	69	48	66	-	931	20	39	63	-	-	-	-	-	1,342	2,258
1965	144	60	27	79	16	994	13	41	61	-	-	-	-	-	1,435	2,468
1966	135	31	19	89	26	1,021	1	69	50	-	-	-	-	-	1,441	2,573
1967	86	23	11	71	5	935	-	42	62	5	-	-	-	-	1,240	2,537
1968	60	48	29	61	-	888	-	114	73	15	-	-	-	-	1,288	2,840
1969	42	39	43	46	-	876	1	135	89	14	2	-	-	-	1,287	3,166
1970	42	36	-	38	-	989	-	47	70	63	8	-	-	-	1,293	3,419
1971	127	36	-	112	11	1,019	-	57	111	80	15	103	-	-	1,671	3,925
1972	190	45	-	142	4	960	3	123	164	73	92	251	-	-	2,047	4,741
1973	486	47	-	223	4	1,135	7	164	213	71	135	459	48	-	2,992	6,256
1974	461	5	-	469	-	979	17	4	300	74	190	713	42	23	3,277	6,112
1975	715	15	-	280	3	698	18	232	388	117	282	762	57	27	3,594	6,056
1976	1,230	5	-	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,313
1977	1,380	48	-	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807
1978	1,144	6	-	555	62	645	64	654	573	385	649	919	54	41	5,751	8,363
1979	1,356	8	-	304	88	690	31	658	420	281	636	1,080	42	42	5,636	8,456
1980	1,261	25	-	9	28	481	22	554	348	172	488	857	27	26	4,298	6,909
1981	1,129	-	-	-	(j)	406	7	319	366	81	311	620	48	35	3,324	5,996
1982	552	5	-	35	3	412	7	26	248	92	170	514	42	40	2,145	5,113
1983	337	14	-	48	10	422	-	-	338	30	240	302	61	59	1,863	5,051
1984	325	36	-	10	12	548	5	1	343	117	323	216	55	58	2,049	5,437
1985	168	21	-	27	46	605	-	4	314	45	187	293	67	52	1,830	5,067
1986	685	68	-	19	81	793	13	-	318	44	271	440	77	26	2,836	6,224
1987	751	84	-	98	83	804	-	-	285	61	295	535	29	35	3,061	6,678
1988	1,064	92	9	-	345	794	-	-	205	29	300	618	47	16	3,520	7,402
1989	1,224	157	-	-	449	873	2	-	183	28	269	815	89	50	4,140	8,061
1990	1,339	86	-	-	518	1,025	4	-	114	17	280	800	49	64	4,296	8,018

(a) Original member 1960.
(b) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together wiht Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Less than 500 barrels per day.

SOURCE: 1960-1980: U.S. Energy Information Administration. P.A.D. District Supply/Disposition Annual
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals

Section XIV
Table 4

United States Crude Oil Imports from OPEC Nations(j)
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Crude Oil Imports
1960	77	130	45	36	17	472	-	-	-	-	-	-	-	-	777	1,015
1961	62	121	53	60	20	427	10	-	-	-	-	-	-	-	753	1,045
1962	67	112	43	49	2	463	26	18	67	-	-	-	-	-	847	1,126
1963	79	81	44	62	1	478	16	19	59	-	-	-	-	-	839	1,131
1964	97	64	48	66	-	476	20	39	63	-	-	-	-	-	873	1,198
1965	132	55	27	78	16	432	12	41	61	-	-	-	-	-	854	1,238
1966	126	26	19	84	26	404	1	69	50	-	-	-	-	-	805	1,225
1967	81	19	11	65	5	359	-	42	62	5	-	-	-	-	649	1,128
1968	52	43	29	58	-	344	-	114	73	15	-	-	-	-	728	1,290
1969	35	34	43	42	-	306	1	134	89	14	1	-	-	-	699	1,409
1970	40	33	-	33	-	268	-	47	70	63	6	-	-	-	560	1,324
1971	115	29	-	106	11	303	-	53	110	80	13	95	-	-	915	1,681
1972	174	36	-	136	4	255	3	109	163	73	87	243	-	-	1,283	2,216
1973	462	42	-	217	4	344	7	133	200	71	119	448	47	-	2,094	3,244
1974	438	5	-	463	-	319	17	4	284	69	180	697	42	23	2,541	3,477
1975	701	4	-	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105
1976	1,222	1	-	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287
1977	1,369	42	-	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,615
1978	1,142	5	-	554	62	181	64	638	533	385	634	910	38	38	5,184	6,356
1979	1,347	5	-	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519
1980	1,250	27	-	8	28	156	22	548	314	172	456	841	17	25	3,864	5,263
1981	1,112	-	-	-	-	147	7	317	318	77	261	611	38	35	2,922	4,396
1982	530	2	-	35	3	155	7	23	226	81	90	510	32	40	1,734	3,488
1983	321	7	-	48	10	164	-	-	315	18	176	301	56	59	1,477	3,329
1984	309	24	-	10	12	253	4	-	304	90	194	207	47	57	1,511	3,426
1985	132	4	-	27	46	306	-	-	292	35	84	280	56	51	1,312	3,201
1986	618	28	-	19	81	416	12	-	297	38	78	437	64	25	2,113	4,178
1987	642	70	-	98	82	488	-	-	262	56	115	529	23	35	2,400	4,674
1988	902	80	9	-	343	439	-	-	186	23	58	607	33	15	2,696	5,107
1989	1,116	155	-	-	441	495	2	-	158	21	60	800	80	49	3,376	5,843
1990	1,195	79	-	-	514	666	4	-	98	9	63	784	38	64	3,514	5,894

(a) Original member 1960.

(b) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(c) Joined in 1961.

(d) Joined in 1962.

(e) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah, and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

(f) Joined in 1969.

(g) Joined in 1971.

(h) Joined in 1973.

(i) Joined as an associate member in 1973 and became a full member in 1975.

(j) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: 1960-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statement
1981-1990: U.S. Energy Information Administration, Petroleum Supply Annuals

OPEC Refinery Capacity
(Thousands of Barrels per Day)

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Algeria	43.7	57.5	57.5	57.5	57.5	57.5	57.5	115.8	115.8	115.8	115.8	115.8	115.8	115.8	135.1
Ecuador	18.2	10.9	19.4	34.5	34.5	34.5	35.5	35.5	35.5	43.9	43.9	43.9	99.5	99.5	94.5
Gabon	--	--	11.9	11.9	14.0	16.0	17.0	17.0	17.0	17.0	20.0	44.0	44.0	44.0	44.0
Indonesia	236.9	241.4	251.2	251.2	256.0	283.5	361.3	361.3	361.3	361.3	361.3	473.4	473.4	473.4	473.4
Iran	466.5	524.2	524.2	594.0	594.0	594.0	605.0	605.0	660.0	690.0	810.0	810.0	1,050.0	1,080.0	1,080.0
Iraq	81.7	81.7	97.7	102.7	102.7	115.7	115.7	115.7	183.5	253.5	253.5	253.5	253.5	295.5	305.5
Kuwait	342.0	342.0	342.0	437.0	437.0	437.0	437.0	484.5	541.5	541.5	609.0	609.0	594.0	594.0	594.0
Libya	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	63.0	63.0	63.0	117.0	117.0	117.0
Nigeria	30.3	30.3	40.0	40.0	40.0	52.1	54.0	54.0	54.0	54.0	54.0	54.0	54.0	144.0	144.0
Qatar	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	9.7	9.7	9.7	9.7	10.5
Saudi Arabia	302.5	335.0	335.0	347.0	347.0	676.0	676.0	676.0	676.0	676.0	703.0	703.0	703.0	758.0	758.0
United Arab Emirates	--	--	--	--	--	--	--	--	--	--	--	15.0	13.5	13.5	13.5
Venezuela	1,119.8	1,134.5	1,216.8	1,222.2	1,258.0	1,289.4	1,294.9	1,473.9	1,473.9	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9
TOTAL OPEC	2,651.2	2,767.2	2,905.4	3,107.7	3,150.4	3,565.4	3,663.6	3,948.4	4,128.2	4,290.6	4,488.1	4,637.7	4,972.3	5,189.3	5,214.4

See notes and sources at end of table

OPEC Refinery Capacity
(Thousands of Barrels per Day)

Country	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	474.5	474.5
Ecuador	94.5	94.5	94.5	94.6	94.6	94.6	94.6	133.0	133.0	135.1	132.0
Gabon	44.0	44.0	44.0	44.0	44.0	21.0	21.0	21.0	20.0	20.0	20.0
Indonesia	473.4	473.4	473.4	837.0	837.0	837.0	738.7	738.7	738.7	751.3	751.3
Iran	1,320.0	1,320.0	670.0	670.0	615.0	615.0	615.0	615.0	615.0	766.0	766.0
Iraq	305.5	305.5	215.5	365.5	365.5	365.5	365.5	365.5	365.5	550.0	550.0
Kuwait	594.0	594.0	594.0	564.0	564.0	564.0	614.0	670.0	670.0	670.0	670.0
Libya	117.0	117.0	117.0	117.0	315.0	333.0	342.0	342.0	342.0	342.0	342.0
Nigeria	234.0	234.0	234.0	234.0	234.0	234.0	243.0	265.5	265.5	400.5	400.5
Qatar	10.5	10.5	13.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	60.0
Saudi Arabia	645.0	765.0	765.0	935.0	1,190.0	1,440.0	1,440.0	1,425.0	1,425.0	1,425.0	1,757.5
United Arab Emirates	13.5	121.5	121.5	175.5	162.0	162.0	162.0	162.0	162.0	162.0	162.0
Venezuela	1,444.9	1,444.9	1,323.1	1,323.1	1,224.2	1,229.2	1,224.2	1,258.1	1,201.1	1,167.0	2,458.0
TOTAL OPEC	5,767.5	5,995.5	5,136.2	5,893.9	6,179.5	6,429.5	6,394.2	6,530.0	6,472.0	6,926.4	8,543.8

SOURCE: OPEC Annual Statistical Bulletin

OPEC'S Value of Petroleum Exports
(Millions of Dollars)

Country	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Algeria	$508	$532	$589	$631	$681	$614	$1,028	$1,522	$4,267	$4,295	$4,791	$5,562	$5,856	$8,746	$12,647	$2,985	$10,770
Ecuador	1	1	1	1	1	1	59	282	693	516	565	500	604	1,161	1,563	1,709	1,509
Gabon	14	32	38	53	58	82	93	196	709	841	881	927	975	1,265	1,876	1,723	1,720
Indonesia	203	240	298	383	446	565	913	1,609	5,211	5,311	6,004	7,298	7,439	8,871	15,595	18,164	15,223
Iran	1,148	1,748	1,688	1,857	2,358	3,494	3,636	5,617	20,904	19,634	22,923	23,599	21,684	19,186	13,286	12,053	19,233
Iraq	698	610	755	769	788	1,083	1,027	1,842	6,534	8,227	9,201	9,560	10,913	21,382	26,296	10,422	10,104
Kuwait	808	803	860	910	1,596	2,143	2,370	3,520	10,394	8,424	8,953	8,778	9,422	16,770	17,678	13,790	8,827
Libya	1,002	1,169	1,857	2,159	2,357	2,697	2,888	3,919	8,175	6,677	9,399	11,220	9,681	15,693	21,396	14,531	13,250
Nigeria	260	204	104	367	715	1,342	1,796	2,905	8,619	7,569	9,943	11,046	8,986	16,303	25,262	17,569	12,833
Qatar	180	202	210	222	227	301	382	601	1,979	1,757	2,137	1,982	2,294	3,643	5,405	5,348	4,106
Saudi Arabia	1,298	1,384	2,020	2,107	2,418	3,803	5,477	8,956	35,476	29,473	38,157	43,308	40,332	62,855	108,174	118,998	78,119
United Arab Emirate	247	262	335	391	485	718	998	1,867	6,948	6,762	8,258	9,132	8,624	12,915	19,558	18,815	15,337
Venezuela	2,190	2,307	2,330	2,279	2,371	2,882	2,857	4,328	10,548	8,324	8,763	9,110	8,740	13,633	18,248	19,039	15,624
TOTAL OPEC	8,558	9,493	11,085	12,129	14,501	19,725	23,524	37,164	120,457	107,810	129,975	142,022	135,550	202,423	286,984	265,146	206,655

See notes and sources at end of table

OPEC'S Value of Petroleum Exports
(Millions of Dollars)

Country	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	$9,467	$9,189	$9,170	$4,819	$6,057	$4,988	$7,000	$8,854
Ecuador	1,733	1,835	1,927	983	724	976	1,147	1,258
Gabon	1,500	1,767	1,629	723	896	779	1,200	1,967
Indonesia	13,558	12,477	9,083	5,501	6,157	5,185	5,716	8,700
Iran	19,225	12,255	13,115	7,183	10,515	8,170	12,500	17,300
Iraq	9,900	11,992	10,685	6,905	11,416	10,952	14,500	9,463
Kuwait	9,736	10,740	9,817	6,378	7,520	6,295	10,863	5,536
Libya	11,905	10,747	9,962	5,787	6,011	5,169	7,500	9,700
Nigeria	10,266	11,704	12,353	6,177	7,023	6,126	8,700	13,200
Qatar	3,104	4,381	3,068	1,720	1,829	1,709	2,000	2,800
Saudi Arabia	44,832	36,263	24,180	16,975	19,271	20,500	24,000	39,700
United Arab Emirate	12,235	12,978	11,842	7,453	8,665	7,352	11,500	15,000
Venezuela	13,839	12,145	10,352	6,713	6,959	8,162	10,020	13,958
TOTAL OPEC	161,260	148,473	127,181	77,314	93,042	86,364	116,646	147,436

SOURCE: OPEC Annual Statistical Bulletin 1987, and 1989.

OPEC Marketed Production of Natural Gas
(Millions of Cubic Meters)

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Algeria	1,780	1,961	2,128	2,357	2,972	2,599	6,573	4,092	3,196	3,807	7,516	7,585	5,738	8,078	15,548	11,647	21,862
Ecuador	--	--	--	14	14	14	14	17	28	28	31	31	40	40	35	31	55
Gabon	11	11	17	24	22	32	31	34	283	637	262	169	177	165	150	159	143
Indonesia	3,156	510	623	633	1,193	1,239	1,253	1,229	800	1,127	2,322	2,338	5,652	10,865	15,765	18,503	18,775
Iran	1,242	1,404	2,850	4,370	4,944	12,881	14,278	16,342	17,789	20,661	20,282	19,997	18,852	16,948	17,913	7,138	5,950
Iraq	498	607	484	485	762	784	925	935	910	836	1,299	1,802	1,178	1,221	1,751	1,281	620
Kuwait	1,817	2,380	2,708	3,339	3,727	2,037	2,104	2,487	2,786	2,931	3,212	3,864	4,213	4,721	6,251	4,071	4,684
Libya	--	--	--	--	--	294	708	2,832	4,531	4,075	4,635	4,779	5,051	5,121	6,785	5,170	3,150
Nigeria	98	176	181	147	64	111	184	273	303	404	402	632	500	380	1,378	1,070	2,155
Qatar	81	82	113	514	852	1,005	1,005	1,103	1,580	1,298	2,003	1,094	1,551	1,479	4,362	4,741	4,323
Saudi Arabia	1,031	1,133	1,136	1,639	1,744	1,230	1,378	1,178	2,316	3,835	3,772	4,434	5,565	7,297	9,167	11,431	22,245
United Arab Emirate	--	--	454	600	569	756	1,045	1,038	1,251	1,199	1,090	1,371	3,796	5,164	5,431	6,863	9,075
Venezuela	7,034	5,983	6,300	6,850	7,065	7,710	7,472	7,427	9,149	9,669	9,404	11,658	12,729	12,523	14,382	14,805	14,886
TOTAL OPEC	16,748	14,247	16,994	20,972	23,928	30,692	36,970	38,987	44,922	50,507	56,230	59,754	65,042	74,002	98,918	86,910	107,923

See notes and sources at end of table

OPEC Marketed Production of Natural Gas
(Millions of Cubic Meters)

Country	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	26,686	36,267	35,039	36,470	37,560	43,170	46,290	48,400	50,640
Ecuador	73	85	81	78	80	40	80	80	100
Gabon	150	118	71	80	90	115	100	90	100
Indonesia	19,076	21,992	32,969	33,905	35,374	36,550	38,510	44,332	48,604
Iran	7,200	11,000	13,500	14,600	15,200	16,000	20,000	22,200	23,710
Iraq	680	470	590	850	1,550	3,750	5,600	6,100	4,180
Kuwait	3,675	4,035	4,376	4,200	5,730	4,780	6,840	8,160	5,230
Libya	3,350	3,710	4,600	5,200	5,600	5,000	5,500	6,000	6,200
Nigeria	1,413	2,298	2,051	2,800	3,299	3,493	3,770	4,322	3,710
Qatar	5,055	5,235	5,930	5,460	5,800	5,610	5,860	6,090	6,720
Saudi Arabia	8,950	4,380	18,200	18,800	25,200	26,800	29,100	29,800	30,500
United Arab Emirate	8,320	8,400	11,060	13,210	15,220	18,890	19,360	21,980	22,100
Venezuela	15,883	15,640	17,300	17,326	19,074	18,589	18,794	18,660	21,401
TOTAL OPEC	100,511	113,630	145,767	152,979	169,777	182,787	199,804	216,214	223,195

SOURCE: OPEC Annual Statistical Bulletin

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

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Section XV
Table 1

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1990

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	2,980	387	50	82	2,827	5,620	10,317	22,263
Alaska	10,257	308	22	1,095	237	656	1,104	13,679
Arizona	106	NA	NA	129	1,724	1,314	9,545	12,818
Arkansas	2,588	475	NA	274	2,223	2,305	5,893	13,758
California	30,972	23,547	909	1,295	11,524	13,188	62,217	143,652
Colorado	12,599	471	46	155	2,145	2,366	9,514	27,296
Connecticut	40	0	52	0	2,509	1,773	8,768	13,142
Delaware	13	767	11	3	319	223	1,508	2,844
District of Columbia	241	40	NA	0	626	184	849	1,940
Florida	514	17	285	67	2,327	7,501	30,348	41,059
Georgia	77	87	109	517	4,282	6,674	18,475	30,221
Hawaii	NA	477	0	0	NA	781	3,353	4,611
Idaho	5	0	0	20	353	1,450	3,684	5,512
Illinois	3,362	7,623	1,360	901	8,087	10,720	26,854	58,907
Indiana	512	2,253	344	389	2,681	3,481	20,013	29,673
Iowa	31	18	180	191	1,092	2,791	14,103	18,406
Kansas	8,447	1,945	355	2,197	2,526	2,606	9,155	27,231
Kentucky	1,828	3,422	71	136	2,897	3,206	12,553	24,113
Louisiana	53,700	10,500	655	1,015	5,791	5,611	8,271	85,543
Maine	21	0	0	67	73	1,243	4,249	5,653
Maryland	28	NA	253	NA	1,128	2,925	12,917	17,251
Massachusetts	9	NA	429	15	5,163	2,653	14,209	22,478
Michigan	3,880	687	811	278	6,694	5,949	26,475	44,774
Minnesota	70	NA	137	217	2,242	2,833	18,803	24,302
Mississippi	5,376	1,733	153	222	2,030	2,557	7,140	19,211
Missouri	74	NA	308	206	3,950	5,809	21,511	31,858
Montana	1,698	775	0	86	370	1,209	3,485	7,623
Nebraska	459	NA	NA	75	1,387	2,479	7,508	11,908
Nevada	205	0	0	9	872	2,229	4,312	7,627
New Hampshire	0	0	28	3	298	384	3,021	3,734
New Jersey	96	6,633	1,035	143	2,364	3,670	18,431	32,372
New Mexico	9,955	589	32	237	2,556	2,246	4,819	20,434
New York	1,583	2,100	417	142	6,627	7,977	28,056	46,902
North Carolina	61	NA	307	116	3,014	5,786	10,794	20,078
North Dakota	2,883	231	107	134	872	2,061	2,514	8,802
Ohio	5,819	7112	630	676	7,371	6,561	35,219	63,388
Oklahoma	41,857	4,506	633	1,177	5,465	4,777	8,262	66,677
Oregon	42	NA	78	NA	1,426	2,308	8,954	12,808
Pennsylvania	3,500	9,200	800	700	8,100	8,100	28,200	58,600
Rhode Island	NA	0	0	NA	958	399	2,270	3,627
South Carolina	28	NA	NA	NA	589	3,310	7,817	11,744
South Dakota	108	0	0	51	125	1,564	2,924	4,772
Tennessee	228	410	55	43	1,885	5,915	12,978	21,514
Texas	171,709	26,389	1,028	4,475	27,970	23,027	32,530	287,128
Utah	2,139	897	3	71	2,238	1,059	6,014	12,421
Vermont	NA	NA	NA	NA	109	389	2,119	2,617

See notes and sources at end of table

Section XV
Table 1a

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1990

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Virginia	254	272	NA	NA	2,938	8,770	16,783	29,017
Washington	237	1,927	NA	121	NA	2,566	10,752	15,603
West Virginia	4,591	273	210	79	4,940	1,179	5,311	16,583
Wisconsin	NA	NA	NA	200	2,642	3,952	18,277	25,071
Wyoming	8,941	1,011	6	223	980	731	3,537	15,429
Total U.S.	394,123	117,082	11,909	18,232	161,546	199,067	646,715	1,548,674

NA Not Available

Note: The above estimates represent results of the Independent Petroleum Association of America's survey of State Labor Departments. The totals of these individual state estimates do not agree with totals shown by the Bureau of Labor Statistics in its "Employment and Earnings" publication due to confidentiality rules.

United States Service Station Population by State

	1977(a)	1980	1981	1982(a)	1983	1984	1985	1986	1987	1988	1989	1990	1991(a)	1992
Alabama	3,562	3,198	3,051	2,001	1,889	1,827	1,722	1,660	2,229	1,198	1,176	1,173	6,500	6,500
Alaska	211	188	179	176	166	161	152	146	214	211	209	208	300	296
Arizona	1,656	1,486	1,418	1,204	1,137	1,099	1,036	1,006	1,241	1,222	1,210	1,206	4,010	2,425
Arkansas	2,407	2,161	2,062	1,216	1,148	1,110	1,047	999	1,357	1,338	1,325	1,321	3,764	3,592
California	14,388	12,916	12,320	10,624	10,029	9,698	9,145	8,814	9,812	9,675	9,578	9,549	13,800	13,140
Colorado	2,485	2,230	2,127	1,570	1,482	1,433	1,351	1,302	1,568	1,546	1,531	1,527	3,400	3,281
Connecticut	2,215	1,988	1,897	1,726	1,629	1,576	1,486	1,432	1,671	1,648	1,632	1,627	1,900	1,850
Delaware	435	391	373	300	283	274	258	249	279	275	272	271	450	508
Dist. of Col.	250	224	214	158	149	144	136	131	115	113	112	112	134	180
Florida	7,287	6,541	6,240	5,504	5,196	5,024	4,738	4,566	5,933	5,850	5,792	5,775	10,152	10,062
Georgia	5,066	4,546	4,337	3,077	2,905	2,809	2,649	2,553	3,273	3,228	3,196	3,187	7,000	7,000
Hawaii	415	372	355	367	346	335	316	304	355	350	347	346	392	407
Idaho	830	745	711	494	466	451	425	410	558	550	545	543	1,123	1,073
Illinois	7,815	7,014	6,691	5,132	4,845	4,686	4,418	4,258	4,655	3,590	3,554	3,543	10,100	5,749
Indiana	4,867	4,346	4,148	3,167	2,990	2,891	2,726	2,627	2,854	2,814	2,786	2,778	4,500	3,901
Iowa	3,424	3,074	2,933	2,064	1,948	1,884	1,777	1,712	2,020	1,992	1,972	1,966	4,169	3,783
Kansas	2,466	2,214	2,112	1,511	1,426	1,379	1,301	1,254	1,576	1,554	1,539	1,534	3,062	2,896
Kentucky	3,452	3,099	2,956	2,119	2,000	1,934	1,824	1,758	2,058	2,029	2,009	2,003	2,446	2,360
Louisiana	2,989	2,683	2,560	1,972	1,862	1,800	1,698	1,636	1,934	1,907	1,888	1,882	6,600	9,497
Maine	933	838	799	640	604	584	551	531	673	664	657	655	700	1,500
Maryland	2,465	2,213	2,111	1,877	1,772	1,713	1,616	1,557	1,846	1,820	1,802	1,797	2,450	2,245
Massachusetts	3,882	3,484	3,324	2,962	2,796	2,704	2,550	2,457	2,738	2,730	2,703	1,695	2,500	4,500
Michigan	6,572	5,899	5,628	4,130	3,899	3,770	3,555	3,426	4,164	4,106	4,065	4,053	8,500	6,905
Minnesota	3,280	2,944	2,809	2,228	2,103	2,034	1,918	1,848	2,289	2,257	2,235	2,228	3,598	3,157
Mississippi	1,962	1,761	1,680	1,191	1,124	1,087	1,025	988	1,374	1,355	1,342	1,338	6,000	6,127
Missouri	5,008	4,497	4,290	2,944	2,779	2,687	2,534	2,442	3,119	3,075	3,044	3,035	7,200	5,895
Montana	968	868	828	528	498	482	455	438	548	540	535	533	1,400	1,432
Nebraska	1,732	1,555	1,483	1,129	1,066	1,031	972	937	1,163	1,147	1,136	1,133	3,000	2,008
Nevada	641	575	549	476	449	435	410	395	441	435	431	430	450	694
New Hampshire	704	632	603	547	516	499	471	454	534	527	522	521	1,050	1,069
New Jersey	5,350	4,802	4,581	4,157	3,924	3,795	3,578	3,449	3,791	3,738	3,701	3,890	3,860	3,800
New Mexico	1,389	1,247	1,190	780	736	712	671	647	696	686	679	677	2,066	1,858
New York	9,245	8,298	7,917	6,328	5,973	5,777	5,447	5,250	5,982	5,898	5,839	5,822	6,800	7,000
North Carolina	5,775	5,185	4,946	3,049	2,878	2,783	2,625	2,529	3,547	3,497	3,462	3,452	10,643	10,244
North Dakota	687	617	589	422	398	385	363	350	471	464	459	458	1,245	983
Ohio	8,820	7,916	7,552	5,704	5,573	5,389	5,082	4,898	5,362	5,287	5,234	5,218	6,205	6,632
Oklahoma	3,063	2,748	2,622	1,599	1,509	1,460	1,376	1,327	1,705	1,682	1,665	1,660	4,700	4,450
Oregon	2,185	1,962	1,872	1,492	1,408	1,362	1,284	1,238	1,352	1,334	1,321	1,317	2,165	2,091
Pennsylvania	8,994	8,073	7,702	5,781	5,457	5,277	4,976	4,796	5,192	5,119	5,068	5,053	6,000	5,790
Rhode Island	697	625	596	515	486	470	443	427	487	476	471	470	602	703
South Carolina	3,001	2,694	2,570	1,666	1,573	1,521	1,434	1,382	1,833	1,807	1,789	1,784	5,200	4,776
South Dakota	861	772	736	533	503	487	459	442	556	548	543	541	1,245	1,245
Tennessee	4,090	3,671	3,502	2,490	2,351	2,273	2,143	2,066	2,491	2,456	2,432	2,425	6,000	6,000
Texas	12,747	11,442	10,916	8,213	7,753	7,497	7,070	6,814	8,568	8,448	8,364	8,339	11,000	9,900
Utah	1,149	1,031	984	842	795	769	725	699	849	827	819	817	2,137	2,116
Vermont	540	484	462	359	339	328	309	298	369	364	360	359	856	854
Virginia	3,992	3,583	3,418	2,652	2,503	2,421	2,283	2,200	2,740	2,702	2,675	2,667	6,000	6,400
Washington	3,005	2,696	2,572	2,146	2,026	1,959	1,847	1,780	2,003	1,975	1,955	1,949	3,500	5,306
West Virginia	1,818	1,632	1,557	1,061	1,002	969	913	880	1,013	999	989	986	2,800	2,700
Wisconsin	4,043	3,629	3,462	2,701	2,550	2,466	2,325	2,241	2,735	2,697	2,670	2,662	5,074	4,388
Wyoming	647	580	553	430	406	393	370	357	415	409	405	404	1,372	1,175
U.S. TOTAL	176,465	158,491	151,200	116,154	109,649	106,031	99,987	96,361	114,7[illegible]	113,142	112,011	111,657	210,120	202,443

See notes and sources at end of table

Section XV
Table 2a

United States Service Station Population by State

(a) Data from 1977 through 1981 represent total service stations. Data beginning in 1982 represent stations with payrolls which by Census Bureau definition, generate more than half of their sales dollars through the sale of gasoline and oil products.
Data for 1991 and 1992 represent all outlets where gasoline is sold at retail; it includes service stations, convenience stores, car washes, etc.

SOURCE: 1977, 1982, and 1987: U.S. Census Bureau, Retail Trade Census
Other years: National Petroleum News estimates based on Census Bureau and other Commerce Department Data

The Following Equivalents are Derived from the use of British Thermal Unit Heat Values(a)

		Crude Petroleum (42 gal/bbl)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu ft)	Distillate Fuel Oil (42 gal/bbl)	Residual Fuel Oil (42 gal/bbl)	Liquefied Pet. Gas (42 gal/bbl)
Crude Petroleum	**42 Gal.Bbl.equals**	-	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	**Short Ton equals**	4.379	-	0.969	24.541	4.361	4.04	6.333
Bituminous Coal & Lignite	**Short Ton equals**	4.517	1.031	-	25.314	4.498	4.167	6.532
Natural Gas-Dry	**1000 Cu.Ft.equals**	0.178	0.041	0.04	-	0.178	0.165	0.258
Distillate Fuel Oil	**42 Gal.Bbl.equals**	I.004	0.229	0.222	5.628	-	0.927	1.452
Residual Fuel Oil	**42 Gal.Bbl.equals**	1.084	0.248	0.24	6.074	1.079	-	1.567
Liquefied Petroleum Gas	**42 Gal.Bbl.equals**	0.692	0.158	0.153	3.875	0.689	0.638	-
(a) B.T.U. Heat Values as used by Bureau of Mines	*1000s*	*5,800*	*25,400*	*26,200*	*1,035*	*5,825*	*6,287*	*4,011*

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248; Kerosine 5,670; Lubricants 6,064.8; Wax 5,537.3 Asphalt 6,636; Miscellaneous 5,796; Natural Gasoline 4,620 per 42 gallon barrel.

Gallon, Barrel, Pound and Ton Equivalents for Converting Measures of Crude Petroleum and Refined Petroleum Products

	Gravity at 60 F.(b)	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pounds
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	-	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	-	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

(b) For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu.Ft. = One 42 Gallon Barrel; U.S. Gallon = .833 Imperial Gallon.
Imperial Gallon = 1.2 U.S. Gallons

SOURCE: API-ASTM-IP Petroleum Measurement Tables

Heat Values for Various Energy Products

Energy Products	Units	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Coal															
Production	Million Btu/sh. ton	23.376	23.072	22.897	22.855	22.597	22.248	22.454	22.415	22.308	22.239	22.052	22.010	21.870	21.913
Consumption	Million Btu/sh. ton	23.057	22.677	22.506	22.498	22.265	22.017	22.100	21.947	21.713	21.674	21.576	21.573	21.366	21.462
Coal Coke	Million Btu/sh. ton	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800
Crude Oil(a)	Million Btu/barrel	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Petroleum Products															
Consumption	Million Btu/barrel	5.515	5.504	5.494	5.504	5.518	5.519	5.494	5.479	5.448	5.415	5.406	5.395	5.387	5.418
Residential & Commercial	Million Btu/barrel	5.387	5.377	5.358	5.363	5.389	5.382	5.471	5.468	5.409	5.392	5.286	5.384	5.326	5.357
Industrial	Million Btu/barrel	5.568	5.538	5.528	5.538	5.555	5.553	5.418	5.376	5.313	5.263	5.273	5.223	5.221	5.286
Transportation	Million Btu/barrel	5.395	5.394	5.392	5.395	5.400	5.404	5.428	5.440	5.432	5.422	5.415	5.422	5.423	5.427
Electric Utilities	Million Btu/barrel	6.245	6.238	6.250	6.251	6.249	6.251	6.258	6.254	6.258	6.258	6.255	6.251	6.247	6.257
LPG average	Million Btu/barrel	3.746	3.730	3.715	3.711	3.677	3.669	3.680	3.674	3.643	3.615	3.614	3.599	3.603	3.640
Natural Gas Plant Liquids	Million Btu/barrel	4.049	4.011	3.984	3.964	3.941	3.925	3.955	3.914	3.930	3.872	3.839	3.812	3.815	3.797
Natural Gas															
Production, dry	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,031	1,031	1,032	1,030
Production, wet	Btu/cubic foot	1,093	1,097	1,095	1,093	1,093	1,088	1,092	1,098	1,103	1,107	1,115	1,109	1,112	1,110
Consumption	Btu/cubic foot	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,031	1,031	1,032	1,030
Fossil Fuel Steam-Electric Power Plant Generation(b)	Btu/kilowatthour	10,389	10,442	10,406	10,373	10,435	10,361	10,353	10,388	10,453	10,454	10,520	10,323	10,339	10,261
Nuclear Power Plant Gen.	Btu/kilowatthour	10,903	11,161	11,013	11,047	10,769	10,941	10,879	10,908	11,030	11,073	10,905	10,843	10,813	10,799
Geothermal Power Plant Gen.	Btu/kilowatthour	21,674	21,674	21,611	21,611	21,611	21,611	21,545	21,639	21,639	21,629	21,290	21,303	21,263	21,263
Electricity Consumption	Btu/kilowatthour	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412

See notes and sources at end of table

Heat Values for Various Energy Products

Energy Products	Units	1987	1988	1989	1990
Coal					
Production	**Million Btu/sh. ton**	21.922	21.822	21.765	21.827
Consumption	**Million Btu/sh. ton**	21.517	21.327	21.272	21.331
Coal Coke	**Million Btu/sh. ton**	24.800	24.800	24.800	24.800
Crude Oil(a)	**Million Btu/barrel**	5.800	5.800	5.800	5.800
Petroleum Products					
Consumption	**Million Btu/barrel**	5.403	5.411	5.410	5.411
Residential & Commercial	**Million Btu/barrel**	5.318	5.323	5.260	5.212
Industrial	**Million Btu/barrel**	5.253	5.247	5.233	5.272
Transportation	**Million Btu/barrel**	5.430	5.434	5.440	5.445
Electric Utilities	**Million Btu/barrel**	6.249	6.250	6.241	6.247
LPG average	**Million Btu/barrel**	3.659	3.652	3.683	3.625
Natural Gas Plant Liquids	**Million Btu/barrel**	3.804	3.800	3.826	3.822
Natural Gas					
Production, dry	**Btu/cubic foot**	1,031	1,029	1,031	1,031
Production, wet	**Btu/cubic foot**	1,112	1,109	1,107	1,106
Consumption	**Btu/cubic foot**	1,031	1,029	1,031	1,031
Fossil Fuel Steam-Electric Power Plant Generation(b)	**Btu/kilowatthour**	10,253	10,235	10,331	10,335
Nuclear Power Plant Gen.	**Btu/kilowatthour**	10,776	10,743	10,724	10,680
Geothermal Power Plant Gen.	**Btu/kilowatthour**	21,263	21,096	21,096	21,096
Electricity Consumption	**Btu/kilowatthour**	3,412	3,412	3,412	3,412

(a) Includes lease condensate.

(b) This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

(c) Preliminary data.

SOURCE: U.S. Energy Information Administration, Monthly Energy Review.

United States Petroleum Industry Injury Frequency Rates by Industry Sector(a)

Industry Sector	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Exploration & Production	3.07	2.60	2.58	2.38	2.06	2.36	2.64	2.73	2.60	2.54	2.4
Gas Processing	3.67	4.33	3.82	3.81	3.77	3.95	3.23	3.50	3.30	3.69	3.15
Drilling	24.96	23.34	18.91	14.23	14.91	11.13	18.23	8.02	9.87	7.79	5.65
Petrochemical Mftg.	6.11	5.07	3.54	3.41	2.60	2.50	3.49	5.56	3.13	4.45	3.05
Refining	5.87	5.21	4.88	4.31	3.52	3.49	6.07	7.10	6.52	6.10	5.95
Marketing-Wholesale	4.38	4.19	3.39	3.60	3.21	3.80	3.93	3.57	4.14	3.62	3.94
Marketing-Retail	4.88	4.49	4.25	3.72	4.42	3.96	5.10	4.47	5.50	5.48	5.29
Pipeline-Liquid	4.21	4.11	3.95	3.95	3.72	3.73	3.35	4.98	3.90	3.77	3.24
Pipeline-Gas	6.10	4.99	4.83	5.43	4.39	3.58	4.16	4.80	4.33	5.11	4.3
Marine	3.08	2.00	2.42	2.85	2.70	2.51	2.21	2.70	2.25	2.34	3.42
Research & Development	2.08	2.19	2.07	2.24	1.72	1.53	1.95	2.47	2.32	1.73	2.15
Gen. Services, Engineering, and Miscellaneous	1.31	1.35	1.30	1.29	1.08	1.14	1.16	1.46	1.19	1.22	1.32
Combined Functions	3.76	2.59	4.79	3.50	3.25	NA	NA	NA	NA	NA	NA
TOTAL	4.22	3.77	3.48	3.20	2.85	2.77	3.46	3.89	3.83	3.59	3.52

(a) Covers operations subject to OSHA recordkeeping requirements only. Frequency rates represent total recordable cases per 100 fulltime workers.

SOURCE: American Petroleum Institute, Summary of Occupational Injuries and Illnesses in the Petroleum Industry.

United States Acreage Under Lease for Oil and Gas Production
(As of January 1)

	1981		1982		1983	
State	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas
Alabama	8,895,085	183,035	9,183,076	183,076	9,297,939	227,040
Alaska	3,527,540	442,540	4,131,340	451,340	5,464,155	459,060
Arizona	12,005,400	5,400	20,146,200	6,200	22,018,200	7,200
Arkansas	9,132,700	1,025,200	10,140,960	1,140,960	12,086,910	1,168,700
California	4,106,000	516,000	5,055,461	455,461	6,018,559	608,646
Colorado	31,809,000	1,103,000	30,639,000	1,209,000	31,577,000	1,334,000
Florida	3,005,200	34,200	3,715,000	35,000	3,755,000	35,000
Georgia	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Illinois	4,413,000	663,000	4,673,000	673,000	4,468,000	668,000
Indiana	8,778,810	7,828,810	8,832,960	7,832,960	8,848,070	7,838,070
Iowa	--	--	--	--	--	--
Kansas	13,222,400	3,804,000	13,794,900	3,882,000	17,000,000	7,600,000
Kentucky	4,950,000	950,000	5,225,000	975,000	5,500,000	1,000,000
Louisiana	15,962,000	4,595,000	16,100,000	7,000,000	13,550,000	6,990,000
Maryland	449,200	14,200	494,200	14,200	494,200	14,200
Michigan	12,550,000	550,000	14,074,000	574,000	14,324,000	574,000
Mississippi	7,951,400	603,400	11,926,500	626,500	11,944,100	628,500
Missouri	504,430	4,030	612,298	12,298	632,900	12,900
Montana	36,060,000	850,000	38,170,000	940,000	42,023,000	1,003,000
Nebraska	12,584,000	280,000	12,570,000	320,000	14,416,000	331,000
Nevada	17,855,800	3,800	23,554,000	4,000	31,646,600	4,600
New Mexico	30,130,000	3,330,000	30,020,000	3,720,000	31,413,000	3,655,000
New York	5,500,000	1,000,000	5,710,000	1,110,000	5,850,000	1,250,000
North Carolin	--	--	--	--	--	--
North Dakota	22,299,000	473,000	22,920,000	530,000	22,256,000	591,000
Ohio	16,527,377	2,861,927	16,520,326	2,979,826	16,448,304	3,076,994
Oklahoma	16,886,900	3,769,000	17,402,000	4,145,900	17,691,600	4,491,600
Oregon	4,001,120	1,120	4,001,000	1,000	9,001,500	1,500
Pennsylvania	17,010,160	2,625,160	17,137,160	2,731,500	17,540,160	2,851,770
South Dakota	7,457,500	19,500	8,120,000	21,000	7,027,000	33,000
Tennessee	6,522,160	22,160	8,327,257	27,257	8,528,500	28,500
Texas	59,974,600	10,900,000	64,350,000	11,750,000	64,723,000	12,475,000
Utah	29,519,000	345,000	30,900,000	364,000	32,014,000	400,000
Virginia	3,053,150	81,936	3,456,940	90,565	3,158,906	112,838
West Virginia	13,934,000	7,160,000	14,134,000	7,325,000	13,447,000	7,528,000
Wyoming	38,765,000	2,200,000	36,850,000	2,300,000	34,227,000	2,445,000
TOTAL U.S.(a)	479,531,532	58,144,418	522,518,628	73,060,033	538,390,603	69,444,118

See notes and sources at end of table

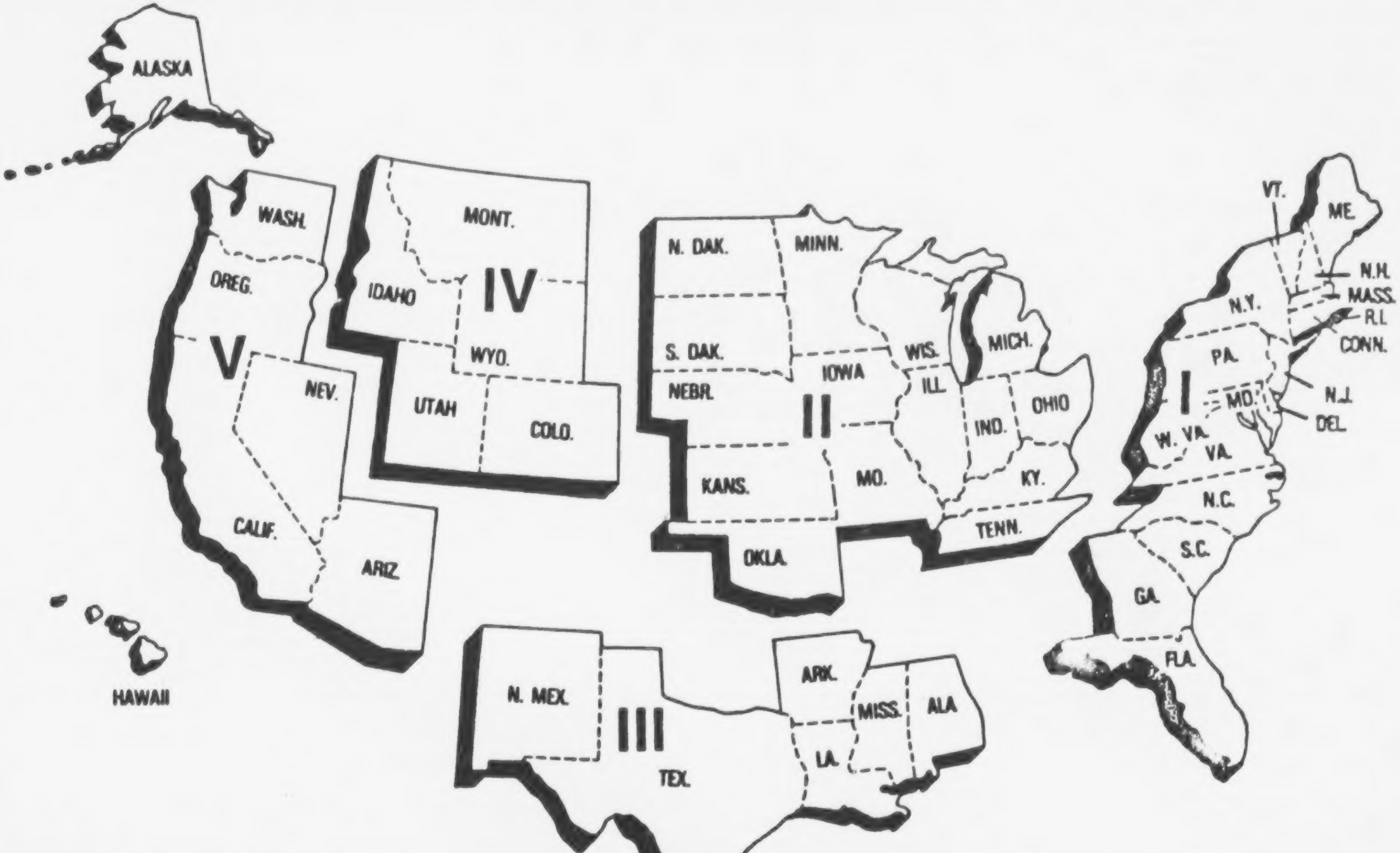
United States Acreage Under Lease for Oil and Gas Production
(As of January 1)

State	1984 Total Estimated Acreage Under Lease	1984 Acreage Proved Productive of Oil and/or Gas	1985 Total Estimated Acreage Under Lease	1985 Acreage Proved Productive of Oil and/or Gas	1986 Total Estimated Acreage Under Lease	1986 Acreage Proved Productive of Oil and/or Gas
Alabama	9,416,034	276,428	9,182,000	316,000	8,010,000	371,000
Alaska	10,574,539	521,983	11,240,000	665,000	12,582,000	682,000
Arizona	23,730,680	6,080	23,731,000	6,000	23,747,000	6,000
Arkansas	13,300,000	1,200,000	12,998,000	1,215,000	10,694,000	1,205,000
California	8,565,791	433,791	9,250,000	500,000	5,810,000	428,000
Colorado	35,531,520	1,447,520	35,531,000	1,509,000	35,622,000	1,556,000
Florida	5,130,080	36,280	2,637,000	37,000	2,639,000	37,000
Georgia	1,894,127	0	2,800,000	0	2,291,000	0
Idaho	870,709	0	913,000	0	600,000	0
Illinois	4,629,000	679,000	4,735,000	706,000	5,900,000	880,000
Indiana	8,963,125	7,925,600	8,963,000	7,926,000	8,000,000	6,295,000
Iowa	0	0	5,000,000	0	5,000,000	0
Kansas	18,672,133	8,517,133	19,750,000	10,595,000	16,380,000	8,795,000
Kentucky	5,525,000	1,025,000	6,350,000	1,210,000	5,458,000	1,089,000
Louisiana	13,672,466	6,997,000	14,500,000	7,842,000	14,080,000	7,609,000
Maryland	524,200	14,200	314,000	17,000	316,000	16,000
Michigan	14,576,720	608,720	14,756,000	628,000	14,931,000	653,000
Mississippi	11,478,900	629,140	10,402,000	700,000	9,500,000	710,000
Missouri	712,900	12,900	713,000	13,000	712,000	12,000
Montana	44,050,200	1,054,400	44,050,000	1,085,000	44,111,000	1,105,000
Nebraska	13,411,080	326,080	13,411,000	334,000	13,508,000	340,000
Nevada	29,852,800	4,800	29,853,000	5,000	28,876,000	5,000
New Mexico	42,524,880	3,725,280	42,621,000	3,822,000	42,688,000	3,878,000
New York	5,900,000	2,000,000	5,600,000	2,000,000	5,610,000	2,010,000
North Carolin	200,000	0	457,000	0	500,000	0
North Dakota	23,299,820	617,120	23,300,000	643,000	23,324,000	658,000
Ohio	16,443,251	3,216,051	15,209,000	3,329,000	14,886,000	3,420,000
Oklahoma	18,990,000	4,025,000	19,200,000	7,211,000	20,435,000	7,675,000
Oregon	7,001,600	1,600	5,025,000	25,000	4,460,000	90,000
Pennsylvania	17,672,160	2,940,610	17,997,000	3,047,000	18,042,000	3,200,000
South Dakota	10,877,340	1,032,640	8,120,000	36,000	8,123,000	37,000
Tennessee	9,830,000	50,715	3,827,000	12,000	3,115,000	18,000
Texas	70,300,000	14,938,000	68,374,000	16,500,000	60,670,000	14,640,000
Utah	38,229,686	487,686	38,230,000	504,000	38,258,000	518,000
Virginia	3,376,396	122,700	3,236,000	147,000	2,586,000	316,000
West Virginia	13,757,000	7,693,000	13,408,000	7,867,000	12,673,000	7,807,000
Wyoming	38,999,100	2,598,400	38,999,000	2,659,000	39,064,000	2,697,000
TOTAL U.S.(a)	592,483,237	69,018,667	587,646,000	83,051,000	566,930,000	78,728

(a) Totals may not add due to the addition of miscellaneous acreage for which detailed information is not available.

SOURCE: IPAA–The Oil Producing Industry in Your State, Annuals.

Petroleum Administration for Defense (PAD) Districts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Heating Equipment and Fuels for Occupied Housing Units (Thousands)

	1950	1960	1970	1980	1983	1985	1987	1989
Total occupied units	42,826	53,024	63,445	80,390	84,638	88,425	90,888	93,883
Heating Equipment								
Warm air furnace	11,508 (a)	17,378 (a)	27,515 (a)	39,279	44,320	47,256	49,854	50,271
Heat Pumps	(a)	(a)	(a)	2,835	2,171	3,031	3,688	6,875
Steam or Hot Water	10,071	11,990	13,211	13,859	13,772	13,929	13,855	13,566
Floor, Wall or Pipeless furnace	(a)	6,088	5,552	4,693	5,977	5,496	5,450	4,806
Built-in electric units	--	664	3,236	6,370	6,207	5,733	6,092	6,658
Room heaters with flue	15,399 (b)	11,183 (b)	7,209	6,098	3,438	2,938	2,629	2,879
Room Heaters without flue	5,268	5,218	3,558	2,736	2,926	2,639	2,346	2,061
Fireplaces, Stoves or Heaters (c)	(b)	(b)	2,766	3,977	5,152	6,140	5,583	5,803
None	581	503	398	541	677	529	659	663
House heating fuel								
Utility gas	11,387	22,851	35,014	42,658	46,700	45,328	45,959	47,395
Fuel oil, Kerosene, etc.	9,686	17,158	16,473	14,655	13,031	13,505	13,453	13,542
Electricity	283	933	4,876	14,768	15,684	18,361	20,608	23,060
Bottled, tank or LPgas	787	2,686	3,807	4,535	3,869	3,584	3,659	3,664
Wood or other fuel	4,855	2,460	1,060	2,729	4,245	6,622	5,782	5,024
Coal or Coke	14,828	6,456	1,821	504	432	447	407	335
None	999	478	395	541	677	529	659	863
Cooking Fuel								
Electricity	6,403	16,351	25,768	41,906	NA	49,057	51,629	54,090
Utility gas	22,084	27,296	31,244	32,375	NA	33,794	33,670	34,487
Bottled, tank or LPgas	3,417	6,491	5,314	5,569	NA	4,815	4,870	4,406
Other fuel	10,796	2,603	908	398	NA	305	330	346
None	124	280	213	142	NA	453	389	554

(a) "Floor, well or pipeless furnace" and "heat pumps" included in "Warm air furnace".

(b) "Fireplace, stoves or portable heaters" included in "Room heaters with flue".

(c) Portable Heaters.

SOURCE: U.S. Bureau of the Census, Census of Housing, 1960 and 1980
Current Housing Reports, Annual Housing Survey 1983, American Housing Survey, 1985-1989.

SELECTED DEFINITIONS

BARREL--unit of volumetric measure. One barrel equals 42 U.S. gallons.

CRUDE OIL--technically defined as a mixture of hydrocarbons that exists in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities.

CRUDE OIL, PRODUCTION--the volume of liquids statistically defined as crude oil, which is produced from oil reservoirs during given periods of time. The amount of such production for a given period is generally established by measurement of volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

CRUDE OIL, PROVED RESERVES--Proved reserves of crude oil as of December 31 of any given year are the estimated quantities of all liquids statistically defined as crude oil, which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by either actual production or conclusive formation tests. The area of an oil reservoir considered proved includes: (1) that portion delineated by drilling and defined by gas-oil or oil-water contacts, if any; and (2) the immediately adjoining portions not yet drilled but which can be reasonably judged as economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurence of hydrocarbons controls the lower proved limit of the reservoir.

Reserves of crude oil which can be produced economically through application of improved recovery techniques (such as fluid injection) are included in the "proved" classification.

Estimates of proved crude oil reserves do not include the following: (1) oil that may become available from known reservoirs but is reported separately as "indicated additional reserves"; (2) natural gas liquids (including lease condensate); (3) oil the recovery of which is subject to reasonable doubt because of uncertainty as to geology, reservoir characteristics, or economic factors; (4) oil that may occur in untested prospects; and (5) oil that may be recovered from oil shales, coal, gilsonite, and other such sources.

DEVELOPMENT WELL--In general, a well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

DISTILLATE FUEL OIL--A general classification for one or more distilled petroleum fractions used for domestic heating and industrial burners, or for power generation in compression ignition engines. These fractions are No. 1 Fuel Oil, No. 2 Fuel Oil, Diesel Fuel and No. 4 Fuel Oil.

DRY HOLE--An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

EXPLORATORY WELL--A well drilled (1) to find and produce oil or gas in an unproved area; (2) to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir; or (3) to extend the limits of a known oil or gas reservoir.

GAS WELL--A well completed for production of natural gas from one or more gas zones or reservoirs. Such wells contain no completions for the production of crude oil.

KEROSINE--A refined petroleum distillate conforming to the requirements of ASTM D 3699. Two classifications are No. 1-K and No. 2-K.

KEROSINE-TYPE JET FUEL (Jet A)-A quality kerosine product covered by ASTM Spec D 1655. Used primarily as fuel for commercial turbojet and turboprop aircraft engines. A relatively low freezing point distillate of the kerosine type.

LIQUEFIED REFINERY GAS (LRG)--Includes liquefied refinery gases that were fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state and represent final products. Excludes still gases used for chemical or rubber manufacture which are reported as petrochemical feedstocks and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquid refinery gases are reported in the following categories for use as petrochemical feedstock, for other uses or both; ethane and or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane.

LUBRICATING OILS--Includes all grades of paraffinic and napthenic lubricating oil stocks, from light distillate spindle oils to residual cylinder stocks. Oils used for grease-making are also classified as lubricating oils.

MOTOR GASOLINE--A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, obtained by blending appropriate refinery streams to form a fuel suitable for use in spark ignition engines. Includes all refinery products within the gasoline range (ASTM spec.D439) that are to be marketed as motor gasoline without further processing i.e. any refinery operation except mechanical blending. Includes both leaded and unleaded grades. Also includes finished components in the gasoline range which will be used for blending or compounding finished gasoline

NAPHTHA-TYPE JET FUEL--(Jet B) A fuel in the heavy naphtha boiling range covered by ASTM Spec. D 1655 and meeting military Spec. MIL-T-5624 (JP-4). Used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram jet and petroleum rocket fuels.

SELECTED DEFINITIONS

NATURAL GAS--A mixture of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with oil in natural underground reservoirs at reservoir conditions. Natural gas may be subclassified as follows: Associated Gas, Dissolved Gas, and Non-associated Gas.

NATURAL GAS, PRODUCTION--Statistics pertaining to natural gas production represent volumes of gas produced from natural oil and gas reservoirs during given periods of time with adjustments (where applicable) to reflect (1) the volume of gas returned to natural reservoirs, and (2) the reduction of volume resulting from the removal of natural gas liquids and nonhydrocarbon gases. The volume of natural gas withdrawn from underground storage facilities is not included in natural gas production statistics.

NATURAL GAS, PROVED RESERVES--Proved reserves of natural gas as of December 31 of any given year are the estimated quantities of natural gas which geological and engineering data demonstrate with reasonable certainty to be recoverable in the future from known natural oil and gas reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by either actual production or conclusive formation tests. The area of a reservoir considered proved includes: (1) that portion delineated by drilling and defined by gas-oil, gas-water or oil-water contacts; and (2) the adjoining portions not yet drilled but which can be reasonably judged economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons controls the lower proved limit of the reservoir.

Reserve estimates are prepared for total recoverable natural gas, nonassociated gas, and associated-dissolved gas. Estimates do not include (1) gaseous equivalents of natural gas liquids expected to be recovered from reservoir natural gas as it is produced; (2) natural gas being held in underground storage; or (3) nonhydrocarbon gases.

NATURAL GAS LIQUIDS--Those portions of reservoir gas which are liquefied at the surface in lease separators, field facilities, or gas processing plants. Natural gas liquids include but are not limited to: ethane, propane, butanes, pentanes, natural gasoline, and condensate.

NEW-FIELD WILDCAT--A well located on a structural feature or other type of trap which has not previously produced oil or gas.

OFFSHORE--Term defined as that geographic area which lies seaward of the coastline. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking seaward limit of inland water.

OFFSHORE WELL--A well which is bottomed at, or produces from, a point which lies seaward of the coastline. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland water. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification is used.

OIL WELL--A well completed for the production of crude oil from at least one oil zone or reservoir.

PAD DISTRICTS (Petroleum Administration for Defense Districts)--a geographic aggregation of the 50 states and the District of Columbia into five districts, originally designed by the Petroleum Administration for Defense in 1950 for purposes of administration. These are an outgrowth of the World War II Petroleum Administration for War Districts.

PETROLEUM PRODUCTS--A generic term used to describe products obtained from distilling and processing crude oil, unifinished oils natural gas liquids, blend stocks and other miscellaneous hydrocarbon compounds.

PETROLEUM REFINERY--A complex installation of equipment designed to manufacture finished petroleum products from crude oil and other liquid hydrocarbons.

PRIMARY STOCKS OF PETROLEUM--Represents stocks held at refineries, natural gas processing plants, bulk terminals, pipelines and leases. Excludes stocks held in secondary and tertiary (consumer) storage.

PROCESSING GAIN--The volumetric amount by which total refinery output is greater than input. This difference is due to the processing of crude oil into products which in total, have a lower specific gravity than the crude oil processed. Therefore, in terms of volume (barrels), the total output of products is greater than input.

PROCESSING LOSS--The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total have a higher specific gravity than the crude oil processed and thus an output in barrels, smaller than the input.

PRODUCT SUPPLIED FOR DOMESTIC USE--Approximately represents consumption of petroleum products in that it measures the disappearance of these products from primary sources, i.e. refineries, natural gas processing plants, blending operations, pipelines, and bulk terminals. It includes losses and fuels used in the industry.

RESIDUAL FUEL OIL--General classification for fuels obtained as liquid still bottoms from the distillation of crude, used alone or in blends with heavy liquids from other refinery process operations. Includes Grades No.5 (light and heavy), No.6 (including heavy grade, so called Bunker C oil), and Navy Special fuel oil.

SELECTED DEFINITIONS

SERVICE WELL--A well drilled or completed for the purpose of supporting production in an existing field.

STRATEGIC PETROLEUM RESERVE (SPR)--Petroleum inventories (currently only crude oil) held in Government-owned underground storage for use during periods of supply interruptions.

STRATIGRAPHIC TEST--A drilling effort, geologically directed, to obtain information pertaining to a specific geological condition that might lead toward the discovery of an accumulation of hydrocarbons. Such wells are customarily drilled without the intention of being completed for hydrocarbon production. This classification also includes tests identified as core tests and all types of expendable holes related to hydrocarbon exploration.

UNFINISHED OILS--Includes all oils requiring further processing, i.e., any refinery operation except mechanical blending.

WELL--A hole drilled in the earth for the purpose of (1) finding or producing crude oil or natural gas; or (2) providing services related to the production of crude oil or natural gas.

CURRENT SOURCE LISTING FOR THE BASIC PETROLEUM DATA BOOK

Section I
U.S. Department of Energy, Energy Information Administration, Annual Energy Outlook (202)586-8800.

U.S Department of Energy, Energy Information Administration, Monthly Energy Review (202)586-8800.

U.S. Department of Commerce, Bureau of the Census, Current Population Reports (202)763-5002.

British Petroleum, BP Statistical Review of World Energy (212)887-9300.

Section II
U.S. Department of Energy, Energy Information Administration, Crude Oil, Natural Gas and Natural Gas Liquids Reserves (202)586-6090.

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U.S. Department of Interior, U.S. Geological Survey, Circular 860 (703)860-7549.

Section III
American Petroleum Institute, Quarterly Completion Reports (202)682-8518

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Hughes Tool Company (713)924-2413.

Reed Tool Company, Annual Rotary Rig Census (713)924-5200.

U.S. Department of Energy, Energy Information Administration, Natural Gas Annuals (202)586-6077.

World Oil Magazine (713)529-4301.

Interstate Oil Compact Commission and National Stripper Well Association (405)525-3556.

Section IV
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Central Intelligence Agency, International Energy Statistical Review. Inquiries directed to DOCEX Project (202)287-9527.

National Stripper Well Association and Interstate Oil Compact Commission (405)525-3556.

Section V
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Section VII
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Section XI
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Section XII
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Association of Oil Pipelines (202)331-8228.

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U.S. Department of Transportation, Federal Highway Administration, "Highway Statistics" (202)426-0160.

Section XII (continued)
Oak Ridge National Laboratory, Light-Duty Vehicle MPG and Market Shares Report (615) 574-5284

Section XIII
U.S. Department of Energy, Energy Information Administration, Crude Oil, Natural Gas and Natural Gas Liquids Reserves (202)586-6090.

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U.S. Department of Energy, Energy Information Administration, Natural Gas Annuals (202)586-6077.

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Section XIV
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Section XV
Independent Petroleum Association of America, The Oil Producing Industry in Your State (202)857-4722.

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1220 L Street, Northwest
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Petroleum Industry Statistics

Volume XII, Number 3
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Annual Supply/Disposition Summary of Total Energy in the United States
(Quadrillion BTU)

SUPPLY/DISPOSITION	1990	1995	2000	2005	2010
Production					
Petroleum	17.9	16.7	15.4	15.0	14.8
Natural Gas(a)	18.3	19.0	19.9	20.7	20.1
Coal	22.5	23.0	24.3	26.5	31.2
Nuclear	6.2	6.5	7.0	7.1	6.9
Renewable Energy(b)	6.6	7.5	8.5	9.5	10.4
Total Production	71.5	72.7	75.1	78.8	83.4
Imports					
Petroleum (Incl. SPR)	17.0	19.7	22.5	24.7	26.4
Natural Gas	1.5	2.3	2.8	3.2	3.4
Coal/Other (-indicates exports)(c)	0.1	0.6	0.8	1.0	1.2
Total Imports	18.5	22.6	26.0	28.9	31.0
Exports					
Petroleum	1.8	1.6	1.7	1.7	1.8
Coal	2.8	3.2	3.7	4.6	6.1
Total Exports	4.6	4.8	5.4	6.4	7.9
Consumption					
Petroleum Products	33.8	35.0	36.4	38.2	39.6
Natural Gas	19.4	21.2	22.6	23.8	23.4
Coal	19.1	19.9	20.7	22.0	25.2
Nuclear Power	6.2	6.5	7.0	7.1	6.9
Renewable Energy/Other(d)	6.6	7.9	9.0	10.1	11.0
Total Consumption	85.0	90.5	95.6	101.2	106.1
Discrepancy(e)	0.9	0.2	0.1	0.0	-0.2
Prices (1990 $ per unit)					
World Oil Price ($/bbl)(f)	21.78	20.80	26.40	30.50	33.40
Nat Gas Wellhead Price ($/Mcf)	1.72	2.02	2.72	3.70	4.65
Avg Coal Minemouth Price ($/ton)	21.76	24.01	26.64	28.71	31.63

(a) Dry natural gas.
(b) Includes utility and nonutility generation of hydroelectric power, geothermal, wood, waste, wind, photovoltaic and solar thermal sources for electricity generation.
(c) Includes coke, net coal coke imports, and net electricity imports (fuel input equivalent).
(d) Same as footnote (b), plus net electricity imports and net coal coke imports.
(e) Balancing item that includes stock changes, gains, losses, and unaccounted for supply.
(f) Represents the cost of imported crude oil to U.S. refiners

SOURCE: U.S. Department of Energy, Energy Information Administration, Annual Energy Outlook 1992.

United States Consumption of Energy by Source and End-Use Sector
(Quadrillion BTU)

SECTOR AND FUEL	1990	1995	2000	2005	2010
Residential	10.22	11.10	11.33	11.68	12.06
Distillate and LPG	1.46	1.35	1.08	0.91	0.80
Natural Gas	4.50	5.01	4.94	4.85	4.71
Other residential(a)	0.15	0.11	0.09	0.07	0.06
Electricity	3.14	3.51	3.70	3.94	4.18
Renewables	0.96	1.12	1.51	1.91	2.31
Commercial	6.68	7.34	7.83	8.30	8.82
Distillate	0.51	0.53	0.49	0.43	0.40
Natural Gas	2.70	3.03	3.14	3.22	3.29
Other Commerical(b)	0.59	0.57	0.63	0.66	0.70
Electricity	2.87	3.20	3.56	3.98	4.44
Industrial	25.25	26.36	27.29	28.12	29.11
Distillate	1.08	1.28	1.31	1.34	1.39
Liquefied Petroleum Gas	1.49	1.87	1.97	2.14	2.33
Petrochemical Feedstocks	1.09	1.15	1.26	1.40	1.55
Residual Fuel	0.58	0.73	0.68	0.68	0.70
Natural Gas	8.71	9.08	9.30	9.13	8.90
Coal	2.77	2.69	2.67	2.68	2.79
Electricity	3.20	3.43	3.90	4.43	4.97
Renewables	2.01	2.25	2.32	2.40	2.50
Other(c)	4.31	3.88	3.89	3.94	3.98
Transportation	22.07	23.22	24.40	26.01	27.37
Motor Gasoline	13.58	13.98	14.41	15.02	15.55
Distillate	3.74	4.21	4.54	4.97	5.39
Jet Fuel	3.13	3.33	3.58	3.94	4.20
Other Transportation(d)	0.86	0.94	1.03	1.14	1.20
Residual Fuel	0.77	0.76	0.85	0.93	1.02
Electric Utilities	30.02	32.63	35.94	39.41	42.39
Petroleum	1.25	1.20	1.63	1.84	1.61
Natural Gas	2.88	3.39	4.49	5.86	5.71
Coal	16.16	17.12	18.04	19.37	22.54
Nuclear	6.19	6.54	6.97	7.06	6.92
Renewable Energy/Other(e)	3.54	4.37	4.81	5.29	5.62

(a) Includes kerosene and steam coal.
(b) Includes kerosene, motor gasoline, residual fuel and renewables.
(c) Includes lubricants, waxes, kerosene, motor gasoline and hydropower.
(d) Includes liquefied petroleum gas, lubricants, waxes, electricity, kerosene, natural gas and renewables.
(e) Includes renewable facilities such as hydropower, geothermal power, wood, waste, solar power and wind power. Also includes net electricity imports.

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1992.

Selected United States Economic, Demographic, and Energy Indicators

Year	Gross Domestic Product (Billion $ 1987)	Population (Millions)	Gross Energy Input(a) (Quadrillion Btu)	Gross Energy Per Dollar of 1987 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	NA	144.1	33.0	NA	229.0
1948	NA	146.6	33.9	NA	231.2
1949	NA	149.2	30.5	NA	204.4
1950	NA	152.3	33.1	NA	217.3
1951	NA	154.9	35.5	NA	229.2
1952	NA	157.6	35.3	NA	224.0
1953	NA	160.2	36.3	NA	226.6
1954	NA	163.0	35.3	NA	216.6
1955	NA	165.9	38.8	NA	233.9
1956	NA	168.9	40.4	NA	239.2
1957	NA	172.0	40.5	NA	235.5
1958	NA	174.9	40.3	NA	230.4
1959	1,931	177.8	42.1	21.8	236.8
1960	1,973	180.7	43.8	22.2	242.4
1961	2,026	183.8	44.5	21.9	242.1
1962	2,130	186.5	46.5	21.8	249.3
1963	2,218	189.2	48.3	21.8	255.3
1964	2,343	191.8	50.5	21.5	263.3
1965	2,473	194.3	52.7	21.3	271.2
1966	2,622	196.6	55.7	21.2	283.3
1967	2,690	198.7	57.6	21.4	289.9
1968	2,801	200.7	61.0	21.8	303.9
1969	2,877	202.7	64.2	22.3	316.7
1970	2,876	205.1	66.4	23.1	323.7
1971	2,959	207.7	67.9	22.9	326.9
1972	3,107	209.9	71.3	22.9	339.7
1973	3,269	212.0	74.3	22.7	350.5
1974	3,248	213.9	72.5	22.3	338.9
1975	3,222	216.0	70.5	21.9	326.4
1976	3,381	218.4	74.4	22.0	340.7
1977	3,533	220.2	76.3	21.6	346.5
1978	3,704	222.6	78.1	21.1	350.9
1979	3,797	225.6	78.9	20.8	349.7
1980	3,776	227.7	76.0	20.1	333.8
1981	3,843	229.3	74.0	19.2	322.7
1982	3,760	231.5	70.8	18.8	305.8
1983	3,907	234.0	70.5	18.0	301.3
1984	4,149	236.2	74.1	17.9	313.7
1985	4,280	238.7	73.9	17.3	309.6
1986	4,405	241.1	74.2	16.8	307.8
1987	4,540	246.3	76.8	16.9	311.8
1988	4,719	247.4	80.2	17.0	324.2
1989	4,837	249.9	81.3	16.8	325.3
1990	4,885	248.7	81.3	16.6	326.9
1991	4,849	252.2	81.5	16.8	323.2

See notes and sources at end of table

Selected United States Economic, Demographic, and Energy Indicators

(a) Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal) including imports of their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs

SOURCE: 1947-1972: U.S. Bureau of Mines, Press Release, March 14, 1977
1973-1991: U.S. Department of Commerce, U.S. Bureau of Census, Current Population Reports.
U.S. Energy Information Administration, Annual and Monthly Energy Review.

Section I
Table 4

United States Petroleum Supply/Disposition Balance
(Millions of Barrels Per Day)

SUPPLY/DISPOSITION	1990	1995	2000	2005	2010
World Oil Price(a) **(1990$/bbl.)**	21.78	20.80	26.40	30.50	33.40
Production	9.68	9.14	8.51	8.39	8.31
Crude and Condensate	7.35	6.68	5.91	5.62	5.51
Alaska	1.77	1.33	0.93	0.69	0.78
Lower 48	5.58	5.34	4.98	4.93	4.73
Natural Gas Plant Liquids	1.56	1.56	1.63	1.70	1.64
Other(b)	0.76	0.90	0.96	1.07	1.16
Imports (incl. SPR)	8.02	9.32	10.58	11.67	12.50
Crude	5.89	6.39	7.68	8.59	8.71
Refined products	2.12	2.93	2.90	3.08	3.79
Exports	0.85	0.77	0.78	0.82	0.86
Crude	0.11	0.10	0.08	0.07	0.08
Refined products	0.75	0.68	0.70	0.75	0.78
Net Storage Withdrawals(c)					
Crude and Products (excl. SPR)	-0.09	-0.03	-0.03	-0.04	-0.02
SPR Fill Rate(-)	-0.02	-0.05	-0.05	0.00	0.00
Petroleum Product Supplied	16.99	17.80	18.43	19.40	20.13
Motor Gasoline	7.23	7.47	7.68	8.04	8.32
Jet fuel	1.52	1.62	1.74	1.92	2.05
Distillate Fuel Oil	3.02	3.31	3.40	3.52	3.68
Residual Fuel Oil	1.23	1.20	1.35	1.48	1.42
Other(d)	3.98	4.20	4.26	4.45	4.66

(a) The cost of imported crude oil to U.S. refiners.
(b) Includes refinery processing gain, and other hydrocarbons and alcohol.
(c) A nagative (-) result represents an increase to inventories and a decrease to total supply.
(d) Includes crude oil supplied as product, unfinished oils, and all other finished petroleum products not listed here.

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1992.

United States Price of Energy by Source and End-Use Sector
(1990 Dollars per Million BTU)

SECTOR AND FUEL	1990	1995	2000	2005	2010
Residential					
Distillate	7.66	7.11	8.18	8.95	9.48
Liquefied Petroleum Gas	10.02	9.13	10.51	11.52	12.27
Natural Gas	5.60	6.02	6.72	7.71	8.66
Electricity	22.96	23.10	23.24	23.94	24.49
Commercial					
Distillate	5.67	5.09	6.17	6.96	7.50
Natural Gas	4.86	5.17	5.87	6.85	7.81
Electricity	21.67	21.35	21.09	21.32	21.65
Industrial					
Distillate	5.63	5.02	6.09	6.86	7.39
Liquefied Petroleum Gas	5.71	5.36	6.73	7.72	8.45
Residual Fuel	2.69	3.24	4.22	4.93	5.42
Natural Gas	2.94	3.28	3.98	4.96	5.91
Steam Coal	1.50	1.70	1.83	1.97	2.16
Metallurgical Coal	1.78	1.96	2.17	2.33	2.56
Electricity	14.41	14.40	14.88	15.63	16.08
Transportation					
Distillate	8.51	8.70	9.77	10.53	11.06
Jet Fuel	5.69	4.82	5.92	6.71	7.26
Motor Gasoline	9.34	9.50	10.87	11.92	12.61
Residual Fuel	3.03	3.22	4.04	4.62	4.99
Electric Utilities					
Coal	1.45	1.59	1.74	1.86	2.00
Heavy Oil	3.28	3.76	4.62	5.32	6.07
Natural Gas	2.33	2.51	3.27	4.39	5.44

SOURCE: U.S. Energy Information Administration, Annual Energy Outlook 1992.

United States Total Gross Consumption of Energy Resources by Major Sources(a)
(Trillion Btu)

Year	Coal(b)	Petroleum(c)	Natural Gas Dry	Hydro-power(d)	Nuclear Power(d)	Total Consumption(e)
1947	15,824	11,367	4,518	1,326	-	33,035
1948	14,897	12,557	5,033	1,393	-	33,880
1949	12,631	12,119	5,289	1,449	-	31,488
1950	12,913	13,489	6,150	1,440	-	33,992
1951	13,225	14,848	7,248	1,454	-	36,775
1952	11,868	15,334	7,760	1,496	-	36,458
1953	11,893	16,098	8,156	1,439	-	37,586
1954	10,195	16,132	8,548	1,388	-	36,263
1955	11,540	17,524	9,232	1,407	-	39,703
1956	11,752	18,627	9,834	1,487	-	41,700
1957	11,168	18,570	10,416	1,551	1	41,706
1958	9,849	19,214	10,995	1,636	2	41,696
1959	9,810	19,747	11,990	1,591	2	43,140
1960	10,140	20,067	12,699	1,657	6	44,569
1961	9,906	20,487	13,228	1,680	18	45,319
1962	10,189	21,267	14,121	1,821	24	47,422
1963	10,714	21,950	14,843	1,767	34	49,308
1964	11,264	22,386	15,648	1,907	35	51,240
1965	11,908	23,242	16,097	2,058	38	53,343
1966	12,495	24,395	17,392	2,073	57	56,412
1967	12,256	25,335	18,250	2,344	80	58,265
1968	12,659	27,052	19,580	2,342	130	61,763
1969	12,733	28,421	21,020	2,659	146	64,979
1970	12,698	29,537	22,029	2,650	229	67,143
1971	12,043	30,570	22,469	2,862	404	68,348
1972	12,461	32,966	22,699	2,929	577	71,643
1973	12,971	34,840	22,512	3,010	910	74,282
1974	12,663	33,455	21,732	3,309	1,272	72,543
1975	12,663	32,731	19,948	3,219	1,900	70,546
1976	13,584	35,175	20,345	3,065	2,111	74,362
1977	13,922	37,122	19,931	2,515	2,702	76,288
1978	13,765	37,965	20,000	3,142	3,024	78,089
1979	15,039	37,123	20,666	3,141	2,776	78,898
1980	15,423	34,202	20,394	3,118	2,739	75,955
1981	15,907	31,931	19,928	3,105	3,008	73,990
1982	15,322	30,231	18,505	3,572	3,131	70,848
1983	15,894	30,054	17,357	3,899	3,203	70,524
1984	17,070	31,051	18,507	3,757	3,553	74,101
1985	17,478	30,922	17,834	3,363	4,149	73,945
1986	17,262	32,196	16,708	3,385	4,471	74,237
1987	18,008	32,865	17,745	3,068	4,906	76,845
1988	18,846	34,222	18,552	2,639	5,661	80,195
1989	18,944	34,211	19,384	2,884	5,677	81,348
1990	19,122	33,553	19,304	2,946	6,161	81,293
1991	18,807	32,720	20,156	3,082	6,543	81,508

See notes and sources at end of table

United States Total Gross Consumption of Energy Resources by Major Sources(a)
(Trillion Btu)

(a) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.
(b) Includes anthracite, bituminous, lignite coal, and imported coke
(c) Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.
(d) Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.
(e) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West: "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Department of the Interior: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: U.S. Energy Information Administration, Monthly Energy Review, March 1992

United States Total Production of Energy Resources by Major Source
(Trillion Btu)

Year	Coal(a)	Petroleum	Natural Gas(b)	Hydropower	Nuclear Power	Total Domestic Gross Energy Inputs(c)
1947	17,975	10,771	5,012	1,296	--	35,054
1948	17,158	11,717	5,615	1,369	--	35,859
1949	12,557	10,683	5,911	1,425	--	30,576
1950	14,647	11,449	6,841	1,415	--	34,352
1951	15,066	13,037	8,106	1,424	--	37,633
1952	13,262	13,282	8,705	1,466	--	36,715
1953	12,767	13,671	9,116	1,413	--	36,967
1954	11,001	13,427	9,488	1,360	--	35,276
1955	12,745	14,445	10,532	1,360	--	39,082
1956	13,747	15,344	11,252	1,435	--	41,778
1957	13,444	15,346	11,885	1,422	1	42,098
1958	11,201	14,154	12,244	1,592	2	39,193
1959(d)	11,105	14,662	13,361	1,551	2	40,681
1960	11,140	14,664	14,135	1,608	6	41,553
1961	10,751	15,185	14,691	1,656	18	42,301
1962	11,211	15,495	15,365	1,816	24	43,911
1963	12,176	15,741	16,271	1,768	34	45,990
1964	12,854	15,691	17,138	1,886	35	47,604
1965	13,395	15,930	17,652	2,059	38	49,074
1966	13,836	16,925	18,984	2,062	57	51,864
1967	14,215	18,100	20,087	2,347	80	54,829
1968	13,955	18,593	21,548	2,349	130	56,575
1969	14,223	18,886	22,838	2,648	146	58,741
1970	15,067	20,401	24,154	2,630	229	62,481
1971	13,607	20,033	24,805	2,825	404	61,674
1972	14,500	20,041	24,792	2,866	576	62,775
1973	13,993	19,493	24,756	2,861	910	62,060
1974	14,074	18,575	23,681	3,177	1,272	60,835
1975	14,990	17,729	22,014	3,155	1,900	59,860
1976	15,654	17,262	21,807	2,976	2,111	59,892
1977	15,755	17,454	21,892	2,333	2,702	60,219
1978	14,910	18,434	21,730	2,937	3,024	61,103
1979	17,539	18,104	22,362	2,931	2,776	63,801
1980	18,597	18,249	22,162	2,900	2,739	64,761
1981	18,376	18,146	22,006	2,758	3,008	64,421
1982	18,639	18,309	20,446	3,266	3,131	63,962
1983	17,246	18,392	18,714	3,527	3,203	61,278
1984	19,719	18,848	20,205	3,348	3,553	65,923
1985	19,325	18,992	19,147	2,939	4,149	64,840
1986	19,510	18,376	18,620	3,017	4,471	64,295
1987	20,142	17,675	19,264	2,593	4,906	64,911
1988	20,737	17,279	19,745	2,314	5,661	66,085
1989	21,345	16,117	19,938	2,771	5,677	66,133
1990	22,456	15,571	20,537	2,926	6,161	67,853
1991	21,552	15,609	20,713	2,880	6,543	67,488

See notes and sources at end of table

Section I
Table 7a

United States Total Production of Energy Resources by Major Source
(Trillion Btu)

(a) Includes anthracite, bituminous and lignite coals.
(b) Includes natural gas plant liquids
(c) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.
(d) Includes Alaska and Hawaii.

SOURCE: 1947-1969: U.S. Department of Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1972: U.S. Bureau of Mines, Press Release
1973-1991: U.S. Energy Information Administration, Monthly Energy Review

Total United States Gross Consumption by Consuming Sector(a)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electricity Generation	Miscellaneous and Un-Accounted for	Total Consumption(b)
1947	6,775	12,795	8,791	4,264	410	33,035
1948	7,039	12,322	8,781	4,725	1,014	33,880
1949	6,884	11,369	8,075	4,616	544	31,488
1950	7,593	12,325	8,616	4,981	477	33,992
1951	7,857	13,698	9,206	5,281	733	36,775
1952	7,979	13,098	9,168	5,518	695	36,458
1953	7,757	13,752	9,205	5,891	981	37,586
1954	7,968	12,515	9,113	5,940	727	36,263
1955	8,595	13,991	9,826	6,595	696	39,703
1956	8,963	14,588	10,132	7,082	935	41,700
1957	8,685	14,503	10,229	7,330	959	41,706
1958	9,467	13,507	10,275	7,317	1,130	41,696
1959	9,711	14,040	10,387	7,873	1,129	43,140
1960	10,174	14,642	10,818	8,263	672	44,569
1961	10,373	14,631	10,986	8,537	792	45,319
1962	10,948	15,249	11,415	9,093	717	47,422
1963	11,016	15,908	11,962	9,683	739	49,308
1964	11,143	16,698	12,261	10,375	763	51,240
1965	11,830	17,176	12,714	11,075	548	53,343
1966	12,388	18,028	13,345	12,054	597	56,412
1967	13,015	18,230	14,015	12,728	278	58,265
1968	13,109	19,363	15,156	13,892	243	61,763
1969	13,606	20,107	15,784	15,254	228	64,979
1970	13,988	20,225	16,473	16,242	215	67,143
1971	14,549	19,299	17,076	17,222	205	68,348
1972	14,917	19,835	18,081	18,543	233	71,609
1973	12,271	23,593	18,567	19,853	NA	74,282
1974	11,771	22,602	18,082	20,022	NA	72,543
1975	11,596	20,392	18,209	20,350	NA	70,546
1976	12,250	21,465	19,066	21,574	NA	74,362
1977	11,873	21,912	19,784	22,713	NA	76,288
1978	11,907	21,875	20,580	23,724	NA	78,089
1979	11,525	22,806	20,437	24,128	NA	78,898
1980	10,720	21,072	19,658	24,505	NA	75,955
1981	10,043	19,717	19,469	24,760	NA	73,990
1982	10,064	17,473	19,032	24,270	NA	70,848
1983	9,716	16,751	19,094	24,956	NA	70,524
1984	10,085	18,209	19,827	25,977	NA	74,101
1985	9,826	17,573	20,063	26,484	NA	73,945
1986	9,576	17,290	20,729	26,642	NA	74,237
1987	9,735	18,250	21,341	27,551	NA	76,845
1988	10,372	19,056	22,141	28,626	NA	80,200
1989	10,492	19,210	22,335	29,301	NA	81,346
1990	9,939	19,921	22,009	29,578	NA	81,453

See notes and sources at end of table

Total United States Gross Consumption by Consuming Sector(a)
(Trillion Btu)

Year	Household and Commercial	Industrial	Transportation	Electricity Generation	Miscellaneous and Un-Accounted for	Total Consumption(b)
1991	9,898	19,465	22,240	29,902	NA	81,508

(a) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives) and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power.

(b) Data may not add to totals because of independent rounding and consumption of geothermal power and electricity produced from wood, waste and wind energy.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000", December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: U.S. Energy Information Administration, Monthly Energy Review.

United States
Demand for Energy Inputs in the Industrial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs(d)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	273,403	7,298	418.3	2,490	2,905,571	3,007	135	459	13,254
1948	244,214	6,516	427.0	2,530	3,164,928	3,276	147	500	12,822
1949	208,919	5,571	415.6	2,466	3,219,197	3,332	142	485	11,854
1950	223,507	5,957	442.4	2,641	3,601,757	3,727	164	559	12,884
1951	238,776	6,403	516.1	3,044	4,107,117	4,251	192	656	14,354
1952	211,146	5,673	515.0	3,034	4,242,986	4,391	200	682	13,780
1953	226,865	6,105	524.7	3,093	4,389,128	4,554	224	765	14,517
1954	179,148	4,860	529.8	3,118	4,383,197	4,537	235	802	13,317
1955	214,946	5,726	566.7	3,330	4,768,562	4,935	295	1,008	14,999
1956	217,810	5,805	626.6	3,688	4,922,139	5,095	326	1,113	15,701
1957	213,404	5,695	595.8	3,478	5,150,413	5,330	332	1,133	15,636
1958	175,600	4,675	570.3	3,292	5,352,294	5,540	323	1,102	14,609
1959	169,924	4,530	625.1	3,589	5,720,756	5,921	356	1,215	15,255
1960	175,225	4,673	643.9	3,682	6,074,114	6,287	383	1,306	15,948
1961	168,090	4,478	642.6	3,682	6,221,668	6,471	383	1,306	15,937
1962	169,995	4,527	678.8	3,880	6,579,008	6,842	411	1,402	16,651
1963	178,201	4,754	702.0	3,994	6,917,738	7,160	429	1,464	17,372
1964	189,561	5,063	744.6	4,184	7,198,706	7,451	463	1,544	18,242
1965	200,688	5,366	740.4	4,139	7,433,200	7,671	479	1,634	18,810
1966	204,945	5,472	781.0	4,353	7,948,486	8,203	524	1,788	19,816
1967	194,595	5,199	798.4	4,432	8,332,614	8,599	547	1,868	20,098
1968	191,602	5,124	897.2	4,965	8,987,095	9,274	599	2,044	21,407
1969	188,586	5,051	943.6	5,171	9,587,670	9,885	632	2,155	22,262
1970	186,637	5,002	940.4	5,061	9,856,844	10,161	648	2,210	22,434
1971	158,866	4,303	947.9	5,088	9,577,212	9,874	682	2,327	21,592
1972	160,624	4,275	1,058.2	5,643	9,622,659	9,882	741	2,528	22,328
1973	179,625	4,057	1,635.1	9,104	10,184,314	10,388	686	2,341	25,917
1974	172,621	3,870	1,570.6	8,694	9,768,555	10,003	685	2,337	24,994
1975	163,443	3,667	1,473.8	8,147	8,364,706	8,532	688	2,346	22,738
1976	162,494	3,661	1,626.9	9,010	8,597,645	8,761	754	2,573	24,038
1977	154,690	3,454	1,759.5	9,774	8,474,975	8,636	786	2,682	24,594
1978	149,232	3,314	1,776.9	9,867	8,404,528	8,539	809	2,761	24,636
1979	160,030	3,593	1,950.5	10,568	8,397,839	8,549	842	2,873	25,679
1980	139,048	3,155	1,771.8	9,525	8,197,267	8,394	815	2,781	23,853
1981	139,783	3,157	1,559.4	8,285	8,055,610	8,257	826	2,817	22,534
1982	112,364	2,552	1,480.9	7,794	6,935,673	7,116	745	2,542	20,015
1983	109,735	2,490	1,407.1	7,420	6,615,907	6,821	776	2,648	19,395
1984	126,070	2,842	1,502.7	7,894	7,232,039	7,449	838	2,859	21,065
1985	125,340	2,760	1,469.2	7,725	6,867,119	7,080	837	2,855	20,439
1986	119,065	2,643	1,492.1	7,953	6,504,373	6,693	831	2,834	20,139
1987	119,432	2,673	1,553.5	8,210	7,104,753	7,325	858	2,928	21,178

See notes and sources at end of table

United States
Demand for Energy Inputs in the Industrial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs(d)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	126,476	2,828	1,598.9	8,463	7,476,190	7,693	897	3,059	22,082
1989	125,744	2,810	1,553.6	8,130	7,886,408	8,131	926	3,158	22,292
1990	123,837	2,781	1,520.3	8,316	8,385,063	8,452	945	3,226	22,813
1991	116,718	2,600	1,455.8	7,963	8,593,598	8,860	941	3,209	22,674

(a) Includes anthracite, bituminous, and lignite coals.

(b) Includes bunkers and military transportation.

(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

(d) Total includes small amounts of imported coke and hydro electric power.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree and J.A. West, "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991 U.S. Energy Information Administration, Monthly Energy Review, March 1992

United States
Demand for Energy Inputs in the Household and Commercial Sector

Year	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	128,657	3,399	385	2,251	1,087,000	1,125	115	391	7,148
1948	122,994	3,238	436	2,539	1,219,402	1,262	130	442	7,481
1949	114,639	3,025	426	2,472	1,340,362	1,387	143	488	7,372
1950	110,422	2,913	526	3,038	1,586,207	1,642	160	546	8,139
1951	100,057	2,648	552	3,202	1,939,034	2,007	180	615	8,471
1952	91,212	2,416	577	3,350	2,137,635	2,213	195	666	8,645
1953	77,976	2,072	585	3,391	2,216,153	2,294	215	733	8,490
1954	65,425	1,752	630	3,650	2,479,205	2,566	234	797	8,765
1955	66,039	1,745	692	4,001	2,753,171	2,849	250	854	9,449
1956	61,685	1,629	722	4,183	3,044,435	3,151	274	935	9,898
1957	46,382	1,225	703	4,069	3,276,185	3,391	299	1,019	9,704
1958	45,005	1,187	788	4,568	3,586,025	3,712	321	1,095	10,562
1959	36,700	969	818	4,718	3,887,708	4,024	353	1,203	10,914
1960	37,180	983	853	4,923	4,123,389	4,268	370	1,262	11,436
1961	32,805	868	872	5,028	4,325,427	4,477	406	1,385	11,758
1962	32,955	872	908	5,227	4,685,231	4,849	437	1,490	12,438
1963	27,603	731	915	5,258	4,856,804	5,027	482	1,645	12,661
1964	22,949	609	904	5,191	5,162,009	5,343	525	1,792	12,935
1965	25,676	678	978	5,635	5,346,450	5,517	571	1,948	13,778
1966	25,587	677	1,000	5,766	5,760,999	5,945	616	2,101	14,489
1967	22,134	585	1,079	6,206	6,029,855	6,223	661	2,257	15,271
1968	19,983	529	1,070	6,129	6,250,997	6,451	723	2,467	15,576
1969	16,875	447	1,100	6,269	6,682,804	6,890	807	2,752	16,358
1970	16,114	427	1,128	6,453	6,984,007	7,108	879	3,000	16,988
1971	15,201	406	1,125	6,430	7,480,667	7,713	940	3,209	17,758
1972	11,708	308	1,168	6,666	7,733,964	7,943	1,019	3,478	18,395
1973	10,210	254	815	4,391	7,476,470	7,626	1,024	3,495	15,766
1974	10,370	257	743	3,996	7,341,797	7,518	1,018	3,475	15,246
1975	8,446	209	710	3,805	7,432,352	7,581	1,056	3,604	15,200
1976	8,165	203	777	4,181	7,719,333	7,866	1,098	3,747	15,997
1977	8,299	205	781	4,206	7,321,884	7,461	1,159	3,955	15,828
1978	8,736	214	756	4,070	7,503,937	7,624	1,206	4,116	16,023
1979	7,594	187	630	3,448	7,751,473	7,891	1,226	4,184	15,709
1980	5,863	145	555	3,035	7,347,953	7,540	1,276	4,355	15,075
1981	6,825	167	487	2,634	7,065,366	7,243	1,318	4,497	14,540
1982	7,731	187	454	2,449	7,244,639	7,427	1,338	4,566	14,630
1983	7,979	192	473	2,498	6,813,773	7,025	1,372	4,680	14,396
1984	8,693	209	491	2,585	7,078,641	7,291	1,444	4,928	15,014
1985	7,572	176	495	2,573	6,865,179	7,078	1,483	5,061	14,888
1986	7,447	176	492	2,576	6,631,681	6,824	1,534	5,235	14,812
1987	6,922	162	499	2,618	6,744,908	6,954	1,595	5,443	15,178

See notes and sources at end of table

United States
Demand for Energy Inputs in the Household and Commercial Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	7,127	168	516	2,693	7,300,292	7,512	1,678	5,724	16,096
1989	6,173	146	510	2,625	7,496,117	7,721	1,717	5,859	16,350
1990	6,742	156	419	2,182	7,075,728	7,288	1,763	6,017	15,636
1991	6,335	147	416	2,166	7,364,078	7,585	1,814	6,190	16,089

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3412 Btu per kilowatt-hour.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000", December 1972
1970: U.S. Bureau of Mines, Minerals Yearbook 1972
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: Energy Information Administration, Monthly Energy Review, March 1992

United States
Demand for Energy Inputs in the Transportation Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1947	113,324	3,030	1,050.3	5,761	Neg.	--	8	29	8,820
1948	98,295	2,624	1,126.6	6,157	Neg.	--	8	27	8,808
1949	70,915	1,892	1,137.8	6,183	Neg.	--	7	25	8,100
1950	63,783	1,701	1,248.8	6,785	125,546	130	7	24	8,640
1951	56,903	1,525	1,377.5	7,482	192,496	199	7	23	9,229
1952	40,428	1,086	1,451.3	7,868	207,207	214	6	22	9,190
1953	30,074	809	1,511.5	8,158	230,314	238	6	20	9,225
1954	19,060	516	1,551.4	8,358	230,615	239	6	18	9,131
1955	17,429	464	1,691.4	9,109	245,246	253	6	19	9,845
1956	14,187	378	1,756.2	9,448	295,972	306	5	17	10,149
1957	10,126	270	1,832.0	9,649	299,235	310	4	15	10,244
1958	5,015	133	1,825.1	9,819	312,221	323	5	16	10,291
1959	3,861	102	1,849.4	9,923	349,348	362	5	17	10,404
1960	3,294	87	1,934.1	10,372	347,075	359	5	18	10,836
1961	770	21	1,971.9	10,575	377,607	390	6	19	11,005
1962	687	18	2,051.3	11,001	382,496	396	5	18	11,433
1963	670	18	2,146.7	11,506	423,783	438	6	19	11,981
1964	711	19	2,198.9	11,791	435,570	451	6	20	12,281
1965	655	18	2,271.9	12,179	500,524	517	5	18	12,732
1966	609	16	2,382.6	12,777	535,353	552	5	16	13,361
1967	467	13	2,497.1	13,408	575,752	594	5	17	14,032
1968	417	11	2,703.8	14,535	590,965	610	5	18	15,174
1969	313	8	2,815.8	15,125	630,962	651	5	17	15,801
1970	298	8	2,923.8	15,720	772,166	745	5	16	16,489
1971	207	6	3,035.1	16,304	742,592	766	5	17	17,093
1972	163	4	3,217.5	17,290	766,156	787	5	17	18,098
1973	112	3	3,305.1	17,831	728,431	743	3	8	18,585
1974	38	2	3,220.1	17,399	668,945	685	3	9	18,095
1975	0	1	3,266.7	17,614	583,333	595	3	10	18,219
1976	0	0	3,430.2	18,506	548,577	559	3	10	19,076
1977	0	0	3,563.1	19,241	532,875	543	3	10	19,794
1978	0	0	3,708.5	20,041	530,512	539	3	9	20,589
1979	0	0	3,652.4	19,825	601,179	612	3	10	20,447
1980	0	0	3,494.1	19,008	634,766	650	3	11	19,669
1981	0	0	3,463.0	18,811	641,951	658	3	11	19,480
1982	0	0	3,397.3	18,420	596,491	612	3	11	19,043
1983	0	0	3,433.6	18,593	489,817	505	3	11	19,109
1984	0	0	3,555.7	19,286	529,126	545	4	12	19,843
1985	0	0	3,601.4	19,534	503,395	519	4	13	20,067
1986	0	0	3,726.3	20,215	484,937	499	4	13	20,728
1987	0	0	3,829.0	20,760	518,914	535	4	13	21,328

See notes and sources at end of table

United States
Demand for Energy Inputs in the Transportation Sector

	Coal(a)		Petroleum(b)		Natural Gas		Electricity Purchased(c)		Total Energy Inputs
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Billion Kilowatt-hours	Trillion Btu	Trillion Btu
1988	0	0	3,961.3	21,510	614,189	632	4	14	22,155
1989	0	0	3,991.0	21,687	630,097	649	4	14	22,350
1990	0	0	4,008.1	21,804	660,194	680	4	14	22,497
1991	0	0	3,936.4	21,414	801,942	826	4	15	22,254

(a) Includes anthracite, bituminous, and lignite coals.
(b) Includes bunkers and military transportation.
(c) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

SOURCE: 1947-1969: U.S. Department of the Interior. W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972
1970-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1991: Energy Information Administration, Monthly Energy Review, March 1992

United States
Demand for Energy Inputs for Electricity Generation by Utilities

	Coal(a)		Petroleum		Natural Gas		Hydropower(b)		Nuclear Power		Total Energy Inputs(c)
Year	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1947	89,531	2,084	75.5	468	373,037	386	84,981	1,326	--	--	4,264
1948	99,586	2,392	71.7	444	478,097	495	88,535	1,393	--	--	4,724
1949	83,964	2,021	92.7	577	550,121	569	96,361	1,449	--	--	4,616
1950	91,871	2,228	106.3	662	628,919	651	102,671	1,440	--	--	4,981
1951	105,768	2,537	80.1	499	763,898	791	106,554	1,454	--	--	5,281
1952	107,071	2,588	78.8	492	910,117	942	111,977	1,496	--	--	5,518
1953	115,883	2,805	92.3	577	1,034,272	1,070	111,625	1,439	--	--	5,891
1954	118,401	2,866	76.8	480	1,165,498	1,206	113,980	1,388	--	--	5,940
1955	143,759	3,482	81.9	512	1,153,280	1,194	120,304	1,407	--	--	6,595
1956	158,279	3,815	79.4	497	1,239,311	1,283	129,775	1,487	--	--	7,082
1957	160,761	3,881	81.9	512	1,338,079	1,385	136,959	1,551	10	1	7,330
1958	155,714	3,743	82.4	515	1,372,853	1,421	147,581	1,636	165	2	7,317
1959	168,427	4,050	87.2	546	1,627,097	1,684	145,002	1,591	188	2	7,873
1960	176,633	4,251	90.1	564	1,724,763	1,785	153,958	1,657	518	6	8,263
1961	182,138	4,374	92.1	577	1,825,341	1,889	157,754	1,680	1,692	17	8,537
1962	193,128	4,636	92.4	579	1,965,590	2,034	172,458	1,821	2,270	23	9,093
1963	211,193	5,065	95.7	600	2,142,930	2,218	168,573	1,767	3,212	33	9,683
1964	225,271	5,395	101.4	636	2,321,889	2,403	182,258	1,907	3,341	34	10,375
1965	244,887	5,843	118.6	744	2,318,253	2,392	196,843	2,058	3,657	38	11,075
1966	266,394	6,327	144.2	905	2,608,768	2,692	199,030	2,073	5,520	57	12,054
1967	273,970	6,457	161.3	1,013	2,746,352	2,834	224,650	2,344	7,655	80	12,728
1968	296,942	6,994	188.0	1,181	3,143,858	3,245	225,242	2,342	12,528	130	13,892
1969	310,310	7,227	259.8	1,628	3,486,391	3,594	254,540	2,659	13,928	146	15,254
1970	322,357	7,261	333.8	2,087	3,894,019	4,015	252,571	2,650	21,801	229	16,242
1971	327,926	7,330	407.1	2,543	3,992,983	4,117	269,899	2,828	37,899	404	17,222
1972	350,196	7,836	503.7	3,134	3,978,673	4,086	280,470	2,911	54,032	576	18,543
1973	388,194	8,658	562.9	3,515	3,660,156	3,748	286,361	2,975	83,463	910	19,853
1974	391,809	8,534	539.4	3,365	3,443,249	3,519	313,733	3,276	113,968	1,272	20,022
1975	405,970	8,786	506.6	3,166	3,157,895	3,240	306,266	3,187	172,523	1,900	20,350
1976	448,360	9,720	556.2	3,477	3,081,134	3,152	292,297	3,032	191,093	2,111	21,574
1977	477,125	10,262	624.3	3,901	3,191,448	3,284	237,853	2,482	250,905	2,702	22,713
1978	481,222	10,238	637.8	3,987	3,188,588	3,297	300,164	3,110	276,392	3,024	23,724
1979	527,055	11,260	524.6	3,283	3,490,821	3,613	300,106	3,107	255,171	2,776	24,128
1980	569,289	12,123	421.2	2,634	3,681,159	3,810	296,918	3,085	251,128	2,739	24,505
1981	596,775	12,583	351.9	2,202	3,640,580	3,768	293,887	3,072	272,711	3,008	24,760
1982	593,659	12,582	250.6	1,568	3,225,869	3,342	338,531	3,539	282,760	3,131	24,270
1983	625,231	13,213	246.8	1,544	2,910,680	2,998	367,490	3,866	293,718	3,203	24,956
1984	664,423	14,020	205.7	1,286	3,111,111	3,220	360,845	3,725	327,677	3,553	25,977
1985	693,831	14,542	174.5	1,090	3,044,316	3,160	322,081	3,330	383,705	4,149	26,484
1986	685,069	14,444	232.1	1,452	2,602,515	2,691	325,771	3,353	414,020	4,471	26,642
1987	725,183	15,173	201.2	1,257	2,843,992	2,935	296,001	3,035	445,271	4,906	27,551
1988	757,540	15,850	250.1	1,563	2,635,214	2,709	254,714	2,607	526,948	5,661	28,626

See notes and sources at end of table

United States
Demand for Energy Inputs for Electricity Generation by Utilities

Year	Coal(a)		Petroleum		Natural Gas		Hydropower(b)		Nuclear Power		Total Energy Inputs(c)
	Thousand Short Tons	Trillion Btu	Million Barrels	Trillion Btu	Million Cubic Feet	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Million Kilowatt-hours	Trillion Btu	Trillion Btu
1989	766,884	15,988	270.0	1,685	2,776,596	2,871	276,062	2,852	529,373	5,677	29,301
1990	772,929	16,189	200.3	1,250	2,787,234	2,882	281,677	2,914	574,506	6,161	29,578
1991	772,319	16,065	188.5	1,178	2,781,431	2,876	295,017	3,049	612,640	6,543	29,902

(a) Includes anthracite, bituminous, and lignite coals
(b) Includes net inputs and negligible amount of hydropower generated by industrial establishments
(c) Total includes small amounts of geothermal power and electricity from wood and waste.

SOURCE: 1947-1969: U.S. Department of the Interior: W.G. Dupree Jr. and J.A. West, "United States Energy Through the Year 2000" December 1972
1970-1972: U.S. Bureau of Mines, Minerals Yearbook 1975
1973-1991: U.S. Energy Information Administration, Monthly Energy Review, March 1992

Section I
Table 13

World Primary Energy Production(a)
(Quadrillion Btu)

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Canada	9.50	9.38	8.89	8.68	9.03	9.14	9.99	10.04	9.75	9.64	10.11	11.01
Mexico	1.87	2.15	2.44	2.74	3.14	3.76	4.51	5.80	6.78	7.82	7.70	7.88
United States	61.95	60.72	59.73	59.81	60.14	61.03	63.71	64.64	64.30	63.79	61.08	65.67
Total North America	73.32	72.25	71.06	71.22	72.31	73.93	78.22	80.48	80.83	81.25	78.90	84.56
Venezuela	8.13	7.29	5.90	5.79	5.69	5.52	6.04	5.71	5.58	5.22	4.99	5.02
Total Central & South America	12.85	12.09	10.62	10.67	10.88	11.19	12.23	12.15	12.13	12.04	12.21	13.10
France	1.78	1.82	1.88	1.71	2.00	2.02	2.03	2.26	2.65	2.62	2.97	3.37
West Germany	4.92	4.95	4.87	5.14	5.12	5.12	5.44	5.44	5.57	5.72	5.53	5.77
Italy	1.06	1.07	1.08	1.11	1.15	1.13	1.10	1.07	1.11	1.16	1.12	1.17
Netherlands	2.52	2.86	3.16	3.44	2.90	2.49	2.69	3.32	3.10	2.67	2.62	2.71
Norway	0.83	0.88	1.22	1.47	1.47	2.07	2.68	3.02	3.06	3.11	3.41	3.65
United Kingdom	4.66	4.47	4.97	5.39	6.58	7.19	8.24	8.40	8.71	9.49	9.92	8.78
Total Western Europe	19.58	20.01	21.36	22.34	23.93	24.81	27.40	28.65	29.73	30.65	31.86	32.40
Iran	13.27	13.68	12.23	13.43	12.88	11.93	7.46	3.91	3.28	5.12	5.67	5.28
Iraq	4.35	4.25	4.89	5.25	5.08	5.53	7.49	5.45	2.16	2.19	2.17	2.61
Kuwait	6.75	5.67	4.68	4.84	4.46	4.90	5.78	3.88	2.70	1.98	2.51	2.76
Saudi Arabia	16.63	18.68	15.68	18.88	20.51	18.45	21.24	22.48	22.57	14.86	11.69	11.29
United Arab Emirates	3.27	3.56	3.56	4.20	4.45	4.09	4.12	3.89	3.45	3.00	2.91	3.00
Total Middle East	46.61	48.33	43.58	49.13	49.77	47.30	48.65	42.13	36.73	29.54	27.29	27.65
Algeria	2.47	2.35	2.34	2.65	2.63	3.28	3.16	2.75	2.95	3.11	3.46	3.71
Libya	4.72	3.32	3.27	4.26	4.53	4.40	4.63	4.03	2.57	2.61	2.52	2.53
Nigeria	4.45	4.89	3.88	4.51	4.50	4.06	4.95	4.50	3.18	2.86	2.77	3.12
South Africa	1.48	1.57	1.65	1.84	2.03	2.15	2.46	2.74	3.09	3.24	3.45	3.87
Total Africa	14.81	13.93	13.19	15.49	16.44	16.70	18.30	17.35	15.09	15.42	16.12	17.52
Australia	3.25	3.44	3.64	3.35	3.43	3.51	3.66	3.53	3.89	4.04	4.24	4.42
China	13.14	14.25	15.11	15.35	16.16	18.05	18.53	18.32	18.10	19.13	20.46	22.39
India	2.22	2.36	2.68	2.88	2.95	3.14	3.30	3.35	4.09	4.43	4.87	5.21
Indonesia	2.90	2.99	2.90	3.38	3.85	3.71	3.83	4.16	4.27	3.65	3.84	4.27
Total Far East & Oceania	26.17	28.04	29.71	30.59	32.09	34.53	35.99	36.53	37.47	38.90	41.54	45.08
Poland	4.94	5.09	5.37	5.00	5.18	5.36	5.51	5.28	4.54	5.16	5.25	5.37
USSR	39.26	41.77	43.62	47.46	49.79	52.11	53.88	55.67	56.71	58.27	59.96	62.00
Total Eastern Europe & USSR	51.44	54.17	56.51	60.23	62.95	65.40	67.52	69.20	69.67	72.18	74.15	76.53
TOTAL WORLD	244.78	248.81	246.03	259.67	268.37	273.87	288.31	286.50	281.66	279.98	282.07	296.83

See notes and sources at end of table

Section I
Table 13a

World Primary Energy Production(a)
(Quadrillion Btu)

Region and Country	1985	1986	1987	1988	1989	1990(p)
Canada	11.80	11.71	12.32	13.17	13.10	13.15
Mexico	7.74	7.07	7.20	7.30	7.33	7.36
United States	64.55	63.99	64.58	65.77	65.85	67.47
Total North America	84.09	82.77	84.11	86.24	86.28	87.98
Venezuela	4.77	5.14	5.07	5.53	5.72	6.29
Total Central & South America	13.42	14.11	14.05	15.16	15.62	16.46
France	3.54	3.80	3.97	4.10	4.09	4.20
West Germany	6.10	5.85	5.80	5.93	5.83	5.77
Italy	1.18	1.26	1.19	1.27	1.15	1.14
Netherlands	2.82	2.71	2.78	2.55	2.63	2.72
Norway	3.82	3.97	4.48	4.84	5.77	6.13
United Kingdom	10.11	10.55	10.24	9.93	8.90	8.66
Total Western Europe	34.98	35.82	36.53	36.98	36.35	36.54
Iran	5.57	5.06	5.66	5.70	7.12	7.65
Iraq	3.09	3.66	4.58	5.97	6.31	4.62
Kuwait	2.44	3.36	3.77	3.63	4.36	2.94
Saudi Arabia	8.55	11.91	10.73	12.73	12.68	15.88
United Arab Emirates	3.29	3.68	4.21	4.22	5.20	5.62
Total Middle East	25.66	30.62	32.08	35.98	39.83	41.04
Algeria	3.77	3.55	4.01	4.02	4.29	4.56
Libya	2.46	2.43	2.29	2.73	2.68	3.18
Nigeria	3.35	3.30	3.04	3.29	3.83	4.14
South Africa	4.17	4.26	4.23	4.30	4.28	4.07
Total Africa	18.42	18.13	18.48	19.43	20.37	21.45
Australia	5.34	5.49	6.02	5.82	6.13	6.62
China	24.14	24.90	26.19	27.07	29.07	30.23
India	5.52	5.96	5.81	5.89	6.50	6.75
Indonesia	4.24	4.33	4.36	4.42	4.73	4.92
Total Far East & Oceania	48.99	51.09	53.14	54.24	57.93	60.17
Poland	5.54	5.72	5.79	5.87	5.49	5.76
USSR	63.81	66.38	68.49	70.90	69.48	67.64
Total Eastern Europe & USSR	78.64	81.49	83.54	86.18	84.09	81.43
TOTAL WORLD	304.19	314.02	321.92	334.22	340.47	345.06

(a) Includes only crude oil, lease condensate, natural gas plant liquids, dry natural gas, coal, net hydroelectric power and net nuclear power.

SOURCE: U.S. Energy Information Administration, International Energy Annual.

Section I
Table 14

World Coal Production(a)
(Million Short Tons)

Region and Country	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Canada	23	23	28	28	32	34	37	40	44	47	50	63	67	64	67	78
Mexico	5	6	6	6	7	7	8	8	8	8	10	10	9	9	8	11
United States	599	610	655	685	697	670	781	830	824	838	782	896	884	890	919	950
Total North America	626	639	688	719	736	711	826	978	876	894	841	969	960	964	994	1,039
Total Central & South America	8	9	9	10	10	10	16	16	14	16	16	18	21	23	27	27
West Germany	238	244	238	247	229	228	239	239	241	247	236	233	231	222	211	207
United Kingdom	143	121	142	137	135	136	135	141	138	137	127	55	104	119	115	117
Yugoslavia	36	37	39	41	43	44	46	52	58	60	65	72	75	77	78	78
Total Western Europe	508	488	509	518	506	509	529	543	561	577	571	510	570	584	573	564
South Africa	69	73	77	85	94	100	114	127	144	151	161	179	192	195	195	196
Total Africa	75	78	82	91	100	106	121	133	149	157	167	184	198	201	202	204
Australia	94	100	105	109	111	114	119	116	130	140	146	153	186	187	209	198
China	520	548	570	586	606	681	698	684	683	734	788	870	937	959	1,019	1,058
India	89	96	109	116	115	116	118	125	142	148	158	168	173	188	207	208
Total Middle East, Far East & Oceania	800	842	890	911	934	1,014	1,042	1,036	1,071	1,138	1,206	1,308	1,448	1,490	1,572	1,615
Czechoslovakia	120	122	127	130	134	136	137	136	137	139	140	143	140	139	137	137
East Germany	272	269	272	273	280	279	282	285	294	304	309	327	344	343	331	342
Poland	216	222	233	241	250	258	264	254	219	250	258	267	275	286	290	294
U.S.S.R.	736	755	773	784	796	798	792	790	703	713	707	700	714	741	750	761
Total Eastern Europe & USSR	1,431	1,454	1,494	1,513	1,546	1,560	1,571	1,566	1,456	1,515	1,518	1,550	1,587	1,625	1,622	1,654
TOTAL WORLD	3,447	3,511	3,673	3,763	3,834	3,911	4,105	4,173	4,128	4,296	4,319	4,538	4,783	4,887	4,994	5,109

See notes and sources at end of table

Section I
Table 14a

World Coal Production(a)
(Million Short Tons)

Region and Country	1989	1990(p)
Canada	78	75
Mexico	11	12
United States	981	1,029
Total North America	1,069	1,116
Total Central & South America	33	35
West Germany	206	203
United Kingdom	111	98
Yugoslavia	82	84
Total Western Europe	571	545
South Africa	194	186
Total Africa	202	195
Australia	216	231
China	1,162	1,220
India	230	241
Total Middle East, Far East & Oceania	1,748	1,839
Czechoslovakia	130	118
East Germany	332	282
Poland	275	289
U.S.S.R.	761	694
Total Eastern Europe & USSR	1,628	1,480
TOTAL WORLD	5,253	5,211

(a) Includes anthracite, subanthracite, bituminous, subbituminous, lignite and brown coal.

SOURCE: U.S. Energy Information Administration, International Energy Annual

United States Government Energy Use by Agency, by Source
(Fiscal Year, Trillion BTU)

	Petroleum								
Agency	Motor Gasoline	Distillate & Residual Fuel Oils	Jet Fuel & Aviation Gas	Other(a)	Total	Electricity(e)	Natural Gas	Coal and Other(b)	Total
					1981				
Defense	27.4	322.6	650.8	2.4	1,003.2	89.5	102.0	44.9	1,239.5
Energy	1.3	3.7	0.3	0.2	5.5	15.8	7.8	18.3	47.3
Postal Service	9.8	3.0	0.0	0.2	13.0	9.5	4.6	0.8	27.9
Veteran's Administration	0.5	3.4	0.0	0.0	3.9	5.4	13.6	1.1	24.0
Transportation	1.3	7.3	4.8	0.0	13.5	3.8	1.2	0.3	18.8
GSA	0.1	1.8	0.0	0.0	1.9	8.8	2.9	4.4	18.0
NASA	0.3	0.8	1.5	0.0	2.5	4.6	2.4	0.4	10.0
Agriculture	4.1	1.1	0.1	0.2	5.6	1.2	1.0	0.0	7.9
Interior	2.3	1.9	0.1	0.4	4.8	1.3	1.4	0.2	7.6
Health & Human Services	0.6	2.7	0.0	0.1	3.4	1.6	1.6	0.0	6.7
Justice	1.7	0.5	0.1	0.0	2.3	0.7	1.8	0.5	5.4
Other(c)	3.7	0.5	0.2	2.1	6.5	2.2	2.0	0.4	11.1
TOTAL	53.2	351.3	658.0	3.7	1,066.2	144.5	142.2	71.3	1,424.2
					1991(p)				
Defense	12.5	218.0	723.9	4.4	958.9	120.6	114.5	47.7	1,241.7
Energy	1.5	3.6	0.5	0.2	5.7	18.8	6.7	20.9	52.1
Postal Service	6.3	3.2	0.0	0.2	9.7	12.1	4.6	0.4	26.7
Veteran's Administration	0.4	1.5	0.0	0.0	1.9	8.3	13.9	0.9	25.0
Transportation	1.8	6.5	5.5	0.1	13.8	3.9	1.1	0.1	19.0
GSA	0.0	0.5	0.0	0.0	0.5	8.9	2.5	1.6	13.4
NASA	0.2	0.9	1.5	0.0	2.6	6.7	2.7	0.6	12.7
Agriculture	4.7	0.6	0.1	0.2	5.7	2.1	2.4	0.0	10.1
Health & Human Services	0.0	2.1	0.0	0.0	2.1	3.4	2.2	0.2	8.0
Justice	1.8	0.4	0.2	0.0	2.5	1.9	2.2	0.4	7.0
Interior	1.5	1.0	0.2	0.9	3.6	1.4	1.0	0.1	6.0
Other(c)	1.2	1.1	1.0	1.7	5.0	4.7	2.1	0.4	12.1
TOTAL	32.0	241.0	732.9	6.1	1,012.0	192.7	155.8	73.3	1,433.7

See notes and sources at end of table

United States Government Energy Use by Agency, by Source
(Fiscal Year, Trillion BTU)

(p) Preliminary.
(a) Includes liquefield petroleum gases and other.
(b) Includes purchased steam, coal and other.
(c) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, Environmental Protection Agency, State Department, Treasury Department, Small Business Administration, Office of Personnel Management, and Department of Housing and Urban Development.
(d) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, National Archives, Environmental Protection Agency, Federal Trade Commission, Commodities Futures Trading Commission, Nuclear Regulatory Commission, Railroad Retirement Board, Equal Employment Opportunity Commission, Office of Personnel Management, State Department, Treasury Department, U.S. Information Agency, and U.S. Department of Housing and Urban Development.
(e) Conversion factor for electricity used was 11,600 Btu per kilowatthour.
NOTE: These data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering, primarily by the Defense Department. U.S. Government energy use for electricity generation and uranium enrichment is excluded. However, other energy used by U.S. agencies that produce electricity and enrich uranium is included.

SOURCE: U.S. Energy Information Administration, Annual Energy Review 1991.

Section I
Table 16

United States Government Energy Use(a)
(Fiscal Year, Trillion BTU)

AGENCY	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991(p)
Defense	1,157.8	1,175.8	1,183.1	1,239.5	1,264.5	1,248.3	1,292.1	1,250.6	1,222.8	1,280.5	1,165.8	1,274.4	1,241.7	1,241.7
Energy	50.1	49.6	47.4	47.3	49.0	49.5	51.6	52.0	49.9	48.2	49.8	43.9	43.4	52.1
Postal Service	30.9	29.3	27.2	27.9	27.5	26.5	27.7	27.8	28.0	28.5	29.6	30.3	29.6	26.7
Veteran's Admin.	26.8	25.7	24.8	24.0	24.2	24.1	24.6	24.3	24.7	24.6	26.0	26.0	24.6	25.0
Transportation	20.6	19.6	19.2	18.8	19.1	19.4	19.8	19.5	19.4	19.0	18.7	18.5	19.0	19.0
GSA	20.4	19.6	18.1	18.0	18.1	16.1	16.2	15.5	14.0	13.1	12.4	12.7	13.8	13.4
NASA	11.2	11.1	10.4	10.0	10.1	10.3	10.6	11.0	11.2	11.2	11.3	12.2	12.4	12.7
Agriculture	9.1	9.2	8.6	7.9	7.6	7.4	7.9	8.3	6.7	7.2	7.7	8.6	9.4	10.1
Health & Human Serv.	6.5	6.4	6.0	6.7	6.4	6.2	6.4	7.0	6.2	6.6	6.4	6.7	8.0	8.0
Justice	5.9	6.4	5.7	5.4	5.8	5.5	6.4	8.2	8.6	8.1	9.4	7.7	7.0	7.0
Interior	9.2	10.4	8.5	7.6	7.4	7.7	8.4	7.4	6.9	6.6	6.9	7.1	7.4	6.0
Other(b)	12.4	12.3	12.3	11.1	11.6	10.8	10.7	10.7	11.0	11.7	15.7	15.0	14.8	12.1
TOTAL	1,360.9	1,375.4	1,371.2	1,424.2	1,451.4	1,431.8	1,482.5	1,442.2	1,409.4	1,465.4	1,359.7	1,463.2	1,430.9	1,433.7

ENERGY SOURCE	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991(p)
Petroleum	1,002.7	1,013.2	1,011.8	1,066.1	1,082.7	1,061.1	1,093.8	1,052.5	1,032.2	1,069.7	952.2	1,054.3	1,020.3	1,011.9
Motor Gasoline	60.1	59.1	56.5	53.2	53.1	51.6	51.2	50.5	45.3	43.1	41.2	41.1	37.2	32.0
Aviation Gasoline	6.2	4.7	4.9	4.6	3.6	2.6	1.9	1.9	1.4	1.0	6.0	0.8	0.5	0.5
Jet Fuel	601.1	618.6	638.7	653.3	672.7	673.4	693.7	705.7	710.2	702.3	617.2	761.7	732.4	732.3
Distillate & Residual	332.3	327.1	307.7	351.3	349.4	329.5	342.9	290.4	271.4	319.3	284.6	245.1	244.0	241.0
LPG's	3.0	3.7	4.0	3.7	3.9	4.0	4.1	4.0	3.9	4.0	3.2	5.6	6.2	6.1
Electricity	141.0	141.2	141.9	144.5	147.5	151.5	155.9	164.0	159.0	169.6	171.0	188.2	192.3	192.7
Natural Gas	144.7	148.9	147.3	142.2	146.2	147.8	157.4	149.0	141.3	145.7	144.8	151.6	156.0	155.8
Coal	66.0	65.1	63.5	65.1	68.6	62.4	65.3	64.0	63.8	67.0	60.1	48.6	44.2	54.4
Purchased Steam	6.4	7.1	6.8	6.2	6.2	9.0	10.1	12.7	13.1	13.4	31.6	20.3	18.1	18.9
TOTAL	1,360.9	1,375.4	1,371.2	1,424.2	1,451.4	1,431.8	1,482.5	1,442.2	1,409.4	1,465.4	1,359.7	1,463.2	1,430.9	1,433.7

(a) Data include energy consumed at foreign installations and in foreign operations, including aviation and ocean bunkering primarily by the Department of Defense. U.S. Government energy use for electricity generation and uranium enrichment is excluded. However, other energy used by U.S. agencies that produce electricity or enrich uranium is included.

(b) Includes Department of Commerce, Panama Canal Commission, Tennessee Valley Authority, Department of Labor, National Science Foundation, Federal Communications Commission, Environmental Protection Agency, National Archives, U.S. Department of State Federal Trade Commission, Railroad Retirement Board, Commodities Futures Trading Commission, Equal Employment Opportunity Commission, Nuclear Regulatory Commission, and Office of Personnel Management, U.S. Department of Housing and Urban Development, U.S. Department of Treasury, Small Business Administration, U.S. Information Agency.

(p) Preliminary

SOURCE: U.S. Energy Information Administration, Annual Energy Review 1991.

BASIC PETROLEUM DATA BOOK

SECTION II. RESERVES, CRUDE OIL

Table 1. Estimated Proved World Crude Oil Reserves
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Section II
Table 1

Estimated Proved World Crude Oil Reserves
Annually as of January 1
(Millions of Barrels)

Year	United States(a)	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1948	21,487.7	125.0	10,085.0	31,697.7	28,550.0	100.0	1,300.0	50.0	61,697.7	6,500.0	NA	68,197.7
1949	23,280.4	500.0	10,880.0	34,660.4	32,621.0	122.0	1,372.0	179.0	68,954.4	4,645.0	NA	73,599.4
1950	24,649.5	1,200.0	11,400.8	37,250.3	32,413.0	202.5	1,557.0	289.0	71,711.7	4,741.0	NA	76,452.7
1951	25,268.4	1,202.6	11,525.0	37,996.0	41,567.0	188.0	1,765.0	445.4	81,961.4	7,965.0	NA	89,926.4
1952	27,468.0	1,376.6	12,710.9	41,555.5	51,320.0	175.0	1,965.5	501.5	95,517.5	7,927.0	NA	103,444.5
1953	27,960.6	1,679.5	11,883.5	41,523.6	64,825.0	163.0	2,062.0	472.7	109,046.3	9,408.0	NA	118,454.3
1954	28,944.8	1,845.4	13,182.0	43,972.3	78,160.0	158.0	2,583.0	641.5	125,514.8	9,455.0	NA	134,969.8
1955	29,560.7	2,207.6	14,356.0	46,124.4	97,459.0	112.0	2,708.0	1,049.2	147,452.6	10,047.0	NA	157,499.6
1956	30,012.2	2,509.5	15,515.0	48,036.7	126,271.0	169.0	3,000.0	1,261.0	178,737.7	10,833.0	NA	189,570.7
1957	30,434.6	2,849.4	17,474.0	50,758.0	144,470.0	285.0	6,140.0	1,305.0	202,958.0	25,000.0	NA	227,958.0
1958	30,300.4	2,874.6	21,003.5	54,178.4	169,566.0	814.0	8,578.0	1,304.0	234,440.4	26,200.0	NA	260,640.4
1959	30,535.9	3,165.9	21,843.0	55,544.8	173,951.0	4,118.5	9,646.5	1,437.0	244,697.8	27,705.0	NA	272,402.8
1960	31,719.3	3,497.1	24,435.6	59,652.1	181,436.0	7,273.5	10,175.5	1,496.0	260,033.1	30,002.0	NA	290,035.1
1961	31,613.2	3,678.5	25,061.8	60,353.6	183,160.0	8,099.5	10,906.5	1,722.0	264,241.6	33,502.0	NA	297,743.6
1962	31,758.5	4,173.6	24,706.0	60,638.1	188,204.0	9,709.5	10,867.6	1,736.0	271,155.2	34,252.0	NA	305,407.2
1963	31,389.2	4,480.7	24,225.5	60,095.4	193,975.0	12,345.5	11,331.1	1,791.0	279,538.0	29,976.0	NA	309,514.0
1964	30,970.0	4,881.5	24,305.0	60,156.5	207,368.0	16,375.5	11,621.2	1,925.6	297,446.8	29,500.0	NA	326,946.8
1965	30,990.5	6,177.5	25,525.0	62,693.1	212,180.0	19,395.6	11,613.7	2,035.6	307,918.0	30,750.0	NA	338,668.0
1966	31,352.4	6,711.2	25,170.5	63,234.1	215,360.0	23,049.0	11,008.8	2,085.0	314,736.9	33,485.0	NA	348,221.9
1967	31,452.1	7,791.8	27,100.3	66,344.2	235,614.6	32,355.5	11,808.5	1,924.5	348,047.3	33,838.0	NA	381,885.3
1968	31,376.7	8,168.9	26,907.3	66,452.8	249,209.0	42,285.3	11,815.9	2,017.0	371,780.0	35,773.0	NA	407,553.0
1969	30,707.1	8,381.6	28,782.8	67,871.5	270,760.0	44,568.8	13,720.2	1,937.0	398,857.5	55,877.0	NA	454,734.5
1970	29,631.9	8,619.8	29,179.8	67,431.4	333,506.0	54,679.5	13,138.2	1,779.0	470,534.1	60,000.0	NA	530,534.1
1971	39,001.3	8,559.0	26,185.3	73,745.6	344,574.9	74,757.5	14,408.6	3,708.5	511,195.1	100,000.0	NA	611,195.1
1972	38,063.0	8,333.1	31,558.8	77,954.8	367,386.0	58,886.2	15,604.5	14,222.0	534,053.5	98,500.0	NA	632,553.5
1973	36,339.4	8,020.1	32,601.8	76,961.3	355,852.0	106,402.0	14,922.3	12,082.0	566,219.6	98,000.0	NA	664,219.6
1974	35,299.8	7,674.2	31,640.3	74,614.2	350,162.5	67,303.8	15,635.0	15,991.0	523,706.5	103,000.0	NA	626,706.5
1975	34,250.0	7,171.2	40,578.0	81,999.2	403,858.2	68,299.5	21,047.7	25,814.0	601,018.5	111,400.0	NA	712,418.5
1976	32,682.1	6,653.0	35,368.0	74,703.1	368,410.6	65,085.2	21,234.2	25,487.7	554,920.8	103,000.0	NA	657,920.8
1977	33,502.0	6,247.1	29,609.0	69,358.0	367,681.2	60,570.2	19,391.1	24,538.8	541,539.4	101,100.0	NA	642,639.4
1978	31,780.0	5,970.9	40,270.0	78,020.9	366,166.0	59,200.2	19,749.3	26,862.5	549,998.8	98,000.0	NA	647,998.8
1979	31,355.0	6,860.0	41,246.5	79,461.5	369,996.0	57,892.1	20,007.2	23,966.0	551,322.8	94,000.0	NA	645,322.8
1980	29,810.0	6,800.0	56,472.5	93,082.0	361,947.3	57,072.1	19,355.2	23,476.4	554,933.0	90,000.0	NA	644,933.0
1981	29,805.0	6,400.0	69,489.8	105,694.8	362,071.0	55,148.4	19,630.5	23,085.0	565,629.7	86,300.0	NA	651,929.7
1982	29,426.0	7,300.0	84,982.3	121,708.3	362,840.0	56,171.6	19,150.8	24,634.5	584,505.2	85,845.0	NA	670,350.2
1983	27,858.0	7,020.0	78,482.1	113,360.1	369,285.9	57,821.7	19,756.1	22,923.7	583,147.4	85,115.0	NA	668,262.4
1984	27,735.0	6,730.0	81,675.9	116,140.9	370,100.8	56,907.0	18,969.4	23,019.5	585,137.6	84,600.0	NA	669,737.6
1985	28,446.0	7,075.0	83,315.7	118,836.7	398,380.8	55,540.6	18,529.9	24,425.5	615,713.4	84,100.0	NA	699,813.4
1986	28,416.0	6,500.0	84,242.4	119,158.4	398,035.7	56,734.1	18,855.8	26,412.6	619,196.6	81,370.0	NA	700,566.6
1987	26,889.0	6,850.0	88,755.3	122,494.3	401,878.7	55,194.1	19,023.5	21,938.1	620,528.7	79,250.0	NA	699,778.7
1988	27,256.0	6,825.0	114,332.0	148,413.0	564,680.3	55,249.7	19,353.7	22,447.8	810,144.5	79,200.0	NA	889,344.5

See notes and sources at end of table

Section II
Table 1a

Estimated Proved World Crude Oil Reserves
Annually as of January 1
(Millions of Barrels)

Year	United States(a)	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1989	26,825.0	6,785.5	121,950.7	155,561.2	571,518.8	56,963.8	21,367.4	18,556.6	823,967.8	83,800.0	NA	907,767.8
1990	26,501.0	6,133.5	125,026.9	157,661.4	660,247.2	58,836.6	22,545.4	18,822.1	918,112.7	84,100.0	NA	1,002,212.7
1991	26,254.0	5,782.9	121,090.7	153,050.7	662,597.9	59,892.1	50,242.1	14,475.8	940,258.6	NA	58,855.0	999,113.5
1992	26,250.0	5,587.8	119,765.5	151,603.2	661,570.8	60,487.5	44,073.2	14,503.2	932,237.9	NA	58,773.5	991,011.4

(a) For 1971-1974 figures include 6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.

(b) Due to the political changes in the USSR and Eastern Europe the category Communist Nations has been discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1948-1976: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
1977-1991: United States, U.S. Energy Information Administration, Crude Oil, Natural Gas and
Natural Gas Liquids Reserves Report, Annual.
Canada, Canadian Petroleum Association (1952-1980)
Rest of the World, Oil and Gas Journal, "Worldwide Report" Issues
1992: Oil and Gas Journal, "Worldwide Production Report" Issue

Section II
Table 2

United States Crude Oil Reserves
(Thousands of barrels)

Year	Proved Reserves at Start of Year	Revisions Extensions and Discoveries, During Year	Production During Year (a)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1947	20,873,560	2,464,570	1,850,445	21,487,685	11.6
1948	21,487,685	3,795,207	2,002,448	23,280,444	11.6
1949	23,280,444	3,187,845	1,818,800	24,649,489	13.6
1950	24,649,489	2,562,685	1,943,776	25,268,398	13.0
1951	25,268,398	4,413,954	2,214,321	27,468,031	12.4
1952	27,468,031	2,749,288	2,256,765	27,960,554	12.4
1953	27,960,554	3,296,130	2,311,856	28,944,828	12.5
1954	28,944,828	2,873,037	2,257,119	29,560,746	13.1
1955	29,560,746	2,870,724	2,419,300	30,012,170	12.4
1956	30,012,170	2,974,336	2,551,857	30,434,649	11.9
1957	30,434,649	2,424,800	2,559,044	30,300,405	11.8
1958	30,300,405	2,608,242	2,372,730	30,535,917	12.9
1959	30,535,917	3,666,745	2,483,315	31,719,347	12.8
1960	31,719,347	2,365,328	2,471,464	31,613,211	12.8
1961	31,613,211	2,657,567	2,512,273	31,758,505	12.6
1962	31,758,505	2,180,896	2,550,178	31,389,223	12.3
1963	31,389,223	2,174,110	2,593,343	30,969,990	11.9
1964	30,969,990	2,664,767	2,644,247	30,990,510	11.7
1965	30,990,510	3,048,079	2,686,198	31,352,391	11.7
1966	31,352,391	2,963,978	2,864,242	31,452,127	11.0
1967	31,452,127	2,962,122	3,037,579	31,376,670	10.3
1968	31,376,670	2,454,635	3,124,188	30,707,117	9.8
1969	30,707,117	2,120,036	3,195,291	29,631,862	9.3
1970	29,631,862	12,688,918 (b)	3,319,445	39,001,335 (b)	11.7 (b)
1971	39,001,335 (b)	2,317,732	3,256,110	38,062,957 (b)	11.7 (b)
1972	38,062,957 (b)	1,557,848	3,281,397	36,339,408 (b)	11.1 (b)
1973	36,339,408 (b)	2,145,831	3,185,400	35,299,839 (b)	11.1 (b)
1974	35,299,839 (b)	1,993,573	3,043,456	34,249,956 (b)	11.3 (b)
1975	34,249,956 (b)	1,318,463	2,886,292	32,682,127 (b)	11.3 (b)
1976	32,682,127 (b)	1,085,291	2,825,252	30,942,166 (b)	11.0 (b)
1977(c	33,502,000	1,140,000	2,862,000	31,780,000	11.1
1978	31,780,000	2,583,000	3,008,000	31,355,000	10.4
1979	31,355,000	1,410,000	2,955,000	29,810,000	10.1
1980	29,810,000	2,970,000	2,975,000	29,805,000	10.0
1981	29,805,000	2,570,000	2,949,000	29,426,000	10.0
1982	29,426,000	1,382,000	2,950,000	27,858,000	9.4
1983	27,858,000	2,897,000	3,020,000	27,735,000	9.2
1984	27,735,000	3,748,000	3,037,000	28,446,000	9.4
1985	28,446,000	3,022,000	3,052,000	28,416,000	9.3
1986	28,416,000	1,446,000	2,973,000	26,889,000	9.0
1987	26,889,000	3,240,000	2,873,000	27,256,000	9.5
1988	27,256,000	2,380,000	2,811,000	26,825,000	9.5

See notes and sources at end of table

Section II
Table 2a

United States Crude Oil Reserves
(Thousands of barrels)

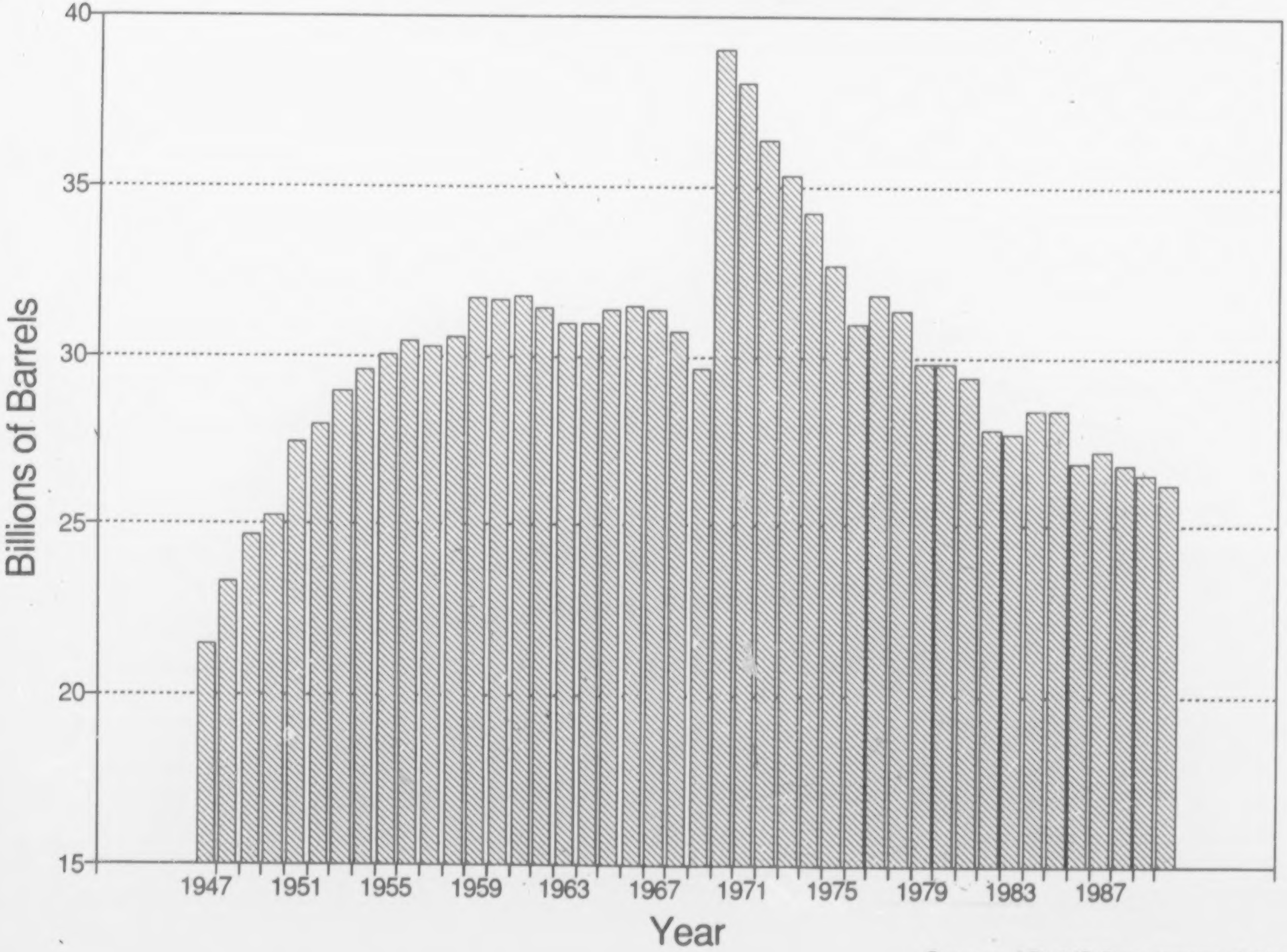
Year	Proved Reserves at Start of Year	Revisions Extensions and Discoveries, During Year	Production During Year (a)	Proved Reserves at Year-end	Indicated Years Supply of Year-end Proved Reserves
1989	26,825,000	2,262,000	2,586,000	26,501,000	10.2
1990	26,501,000	2,258,000	2,505,000	26,254,000	10.5

(a) Production is the amount originally estimated and used by API in prior reserves reports.
(b) Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968).
(c) Beginning in 1977, crude oil reserves estimates come from the Department of Energy. Therefore, reserves at year-end 1976 do not equal reserves at start of year 1977. These figures include crude oil only, i.e. they exclude lease condensate.

SOURCE: 1947-1976: American Petroleum Institute, Committee on Reserves and Productive Capacity.
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

Section II
Table 2b

U.S. CRUDE OIL RESERVES



Source: API, US Department of Energy

Section II
Table 3

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	2.8	3.5	3.5	5.4	7.9	15.6	17.2	15.6	20.6	37.5	34.4	38.6	34.2
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	296.9	300.0	297.5	341.7	336.5	352.3	358.2	351.4	329.5	317.7	305.0	317.9	312.9
California	3,295.0	3,763.6	3,822.8	3,733.6	3,760.9	3,854.2	3,919.4	3,888.6	3,801.4	3,771.4	3,759.8	3,866.4	3,762.5
Colorado	381.9	365.5	344.8	339.5	325.2	305.7	319.3	328.7	334.0	363.8	309.9	392.1	381.0
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Illinois	355.4	393.4	468.1	564.2	646.3	619.5	624.8	658.4	691.2	700.0	654.7	607.6	594.4
Indiana	46.0	49.1	50.2	57.4	50.7	55.5	62.1	67.2	61.5	67.7	66.7	71.5	74.0
Kansas	562.7	674.4	738.4	732.2	791.9	917.0	913.3	978.4	998.1	992.2	947.5	922.4	917.5
Kentucky	64.6	59.2	56.2	55.9	58.5	55.6	81.7	85.3	107.5	148.4	138.0	126.4	136.3
Louisiana	1,791.0	1,869.3	1,909.8	2,185.1	2,284.8	2,557.5	2,759.7	2,961.7	3,255.3	3,675.4	3,857.6	4,044.0	4,660.1
Michigan	69.7	69.4	66.5	78.7	64.1	57.4	60.7	59.6	58.9	55.3	49.5	45.0	55.3
Mississippi	303.7	365.4	402.9	385.7	385.4	358.8	350.1	412.3	387.7	368.2	359.6	378.7	389.3
Montana	114.7	118.9	112.4	111.3	108.4	156.2	209.0	272.4	298.9	331.4	320.0	337.8	309.3
Nebraska	0.9	0.9	1.6	9.7	15.9	21.8	25.6	38.0	57.7	62.9	63.1	69.2	80.6
New Mexico	530.5	552.2	592.2	592.0	611.6	733.4	814.9	805.9	819.7	835.4	831.7	894.1	1,025.8
New York	71.5	67.1	62.9	58.8	57.1	52.9	49.1	45.8	42.9	40.2	37.5	35.8	34.2
North Dakota	--	--	--	--	5.0	76.2	128.3	134.3	165.5	195.8	258.2	314.1	381.9
Ohio	29.0	28.5	27.7	27.3	26.4	27.4	31.8	36.8	56.0	63.6	68.2	70.8	74.1
Oklahoma	953.0	1,250.4	1,329.9	1,396.9	1,476.5	1,557.6	1,752.2	1,955.3	2,016.0	2,009.8	1,941.5	1,898.1	1,864.7
Pennsylvania	122.7	109.8	103.4	106.4	95.0	121.7	111.1	101.8	93.3	134.7	126.5	119.8	113.6
South Dakota	--	--	--	--	--	--	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	11,777.5	12,484.2	13,509.7	13,581.6	15,315.0	14,916.2	14,998.6	14,982.0	14,933.5	14,783.4	14,555.1	14,322.2	14,859.7
Utah	(a)	(a)	15.8	21.6	29.7	42.4	37.9	36.4	37.1	61.4	140.0	198.6	194.5
West Virginia	36.1	36.7	38.0	39.0	38.8	37.2	36.6	37.3	47.0	51.2	52.5	52.1	51.3
Wyoming	679.3	715.8	691.6	841.0	973.4	1,064.7	1,279.1	1,303.6	1,373.6	1,363.2	1,419.7	1,408.7	1,402.9
Miscellaneous	3.0	3.0	3.6	3.4	3.1	3.8	4.1	3.8	5.2	4.5	3.6	4.0	9.2
TOTAL U.S.(b,c)	21,487.7	23,380.4	24,649.5	25,268.4	27,468.0	27,960.6	28,944.8	29,560.7	30,012.2	30,434.6	30,300.4	30,535.9	31,719.3

See notes and sources at end of table

Section II
Table 3a

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	33.3	35.9	37.5	45.1	49.9	66.4	85.3	78.8	72.7	67.1	65.3	61.5	56.7
Alaska	(a)	(a)	(a)	74.9	82.9	159.8	321.4	380.8	373.2	432.3	10,148.8	10,116.2	10,096.3
Arkansas	302.0	280.7	246.8	225.3	205.2	201.0	181.3	176.4	159.3	127.3	129.6	117.6	113.1
California	3,658.5	3,614.7	3,648.4	3,599.7	4,125.5	4,567.5	4,608.0	4,369.4	4,340.7	4,242.7	3,984.0	3,705.8	3,553.7
Colorado	363.9	419.7	388.3	368.4	346.3	327.2	343.5	339.9	420.5	400.6	389.0	332.8	326.4
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	74.8	204.1	208.1
Illinois	555.9	503.2	460.2	416.6	391.5	371.2	362.3	335.5	313.8	272.1	228.7	208.8	174.9
Indiana	66.3	62.0	61.0	63.4	60.6	57.6	47.9	47.2	40.2	41.3	37.0	30.9	29.4
Kansas	883.8	878.0	862.4	841.3	796.5	751.6	726.4	625.1	600.8	566.0	539.3	501.6	453.4
Kentucky	128.9	116.5	108.6	100.5	117.9	107.6	101.2	94.3	79.5	73.1	61.4	52.5	48.2
Louisiana	4,785.4	4,931.2	5,086.6	5,088.6	5,162.5	5,245.8	5,408.4	5,455.9	5,608.2	5,689.2	5,710.3	5,399.0	5,028.5
Michigan	77.8	78.8	75.0	68.5	58.3	52.8	70.7	62.5	55.3	51.5	45.6	58.8	62.0
Mississippi	407.1	401.2	388.4	384.9	356.7	359.8	374.1	356.7	325.6	360.2	354.7	342.4	312.5
Montana	266.7	250.9	248.9	271.3	251.6	274.1	281.6	308.0	345.1	275.8	241.5	228.2	241.2
Nebraska	86.2	100.4	93.8	83.6	71.1	70.7	57.1	63.2	55.3	46.8	40.9	36.1	30.6
New Mexico	1,083.7	1,090.2	1,064.6	1,010.7	956.8	895.2	1,024.6	925.8	864.5	839.9	760.9	656.9	582.6
New York	32.4	27.7	23.1	18.4	13.6	11.9	10.2	14.6	13.0	11.8	10.6	9.8	9.2
North Dakota	430.5	413.1	403.5	389.2	377.2	395.1	321.3	290.3	287.4	234.5	192.4	174.0	166.0
Ohio	74.7	75.8	77.3	87.8	99.6	100.9	101.2	114.2	132.3	127.4	127.9	129.1	127.4
Oklahoma	1,790.5	1,787.5	1,728.3	1,628.1	1,585.9	1,517.5	1,518.2	1,458.9	1,394.7	1,390.0	1,351.4	1,404.6	1,303.0
Pennsylvania	107.6	102.0	96.7	91.7	86.6	76.8	72.4	63.3	59.2	54.7	51.3	47.1	37.3
South Dakota	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	14,758.5	14,849.6	14,648.3	14,573.1	14,299.8	14,303.1	14,077.1	14,494.1	13,809.9	13,063.2	13,195.5	13,023.5	12,144.1
Utah	208.5	218.1	197.7	219.6	219.5	196.9	213.4	201.0	180.0	195.3	181.5	165.8	244.4
West Virginia	51.4	50.9	56.2	57.3	58.7	55.2	56.6	56.2	53.6	53.5	53.2	51.7	34.0
Wyoming	1,427.4	1,380.5	1,297.0	1,254.3	1,204.5	1,168.9	1,072.5	1,043.5	1,101.3	996.6	1,017.4	997.0	949.8
Miscellaneous	32.3	89.7	90.5	7.5	11.9	17.9	15.3	20.9	20.8	18.9	8.4	7.3	6.5
TOTAL U.S.(b,c)	31,613.2	31,758.5	31,389.2	30,970.0	30,990.5	31,352.4	31,452.1	31,376.7	30,707.1	29,631.9	39,001.3	38,063.0	36,339.0

See notes and sources at end of table

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	53.5	68.7	61.0	53.3	85.0	74.0	45.0	54.0	55.0	54.0	51.0	68.0	69.0
Alaska	10,112.2	10,094.1	10,037.3	9,785.7	8,413.0	9,384.0	8,875.0	8,751.0	8,283.0	7,406.0	7,307.0	7,563.0	7,056.0
Arkansas	105.6	106.3	95.7	93.4	116.0	111.0	107.0	107.0	113.0	107.0	120.0	114.0	97.0
California	3,488.1	3,557.0	3,647.5	3,589.9	5,005.0	4,974.0	5,265.0	5,470.0	5,441.0	5,405.0	5,348.0	5,707.0	5,801.0
Colorado	304.8	289.3	276.1	251.8	230.0	194.0	159.0	183.0	147.0	169.0	186.0	198.0	198.0
Florida	183.9	302.7	262.5	249.6	213.0	168.0	128.0	134.0	109.0	97.0	78.0	82.0	77.0
Illinois	152.3	159.8	161.0	155.3	150.0	158.0	136.0	113.0	129.0	150.0	135.0	153.0	136.0
Indiana	26.6	24.4	22.0	22.3	20.0	29.0	40.0	23.0	23.0	28.0	34.0	33.0	35.0
Kansas	401.1	395.1	364.4	361.6	349.0	303.0	377.0	310.0	371.0	378.0	344.0	377.0	423.0
Kentucky	40.0	36.6	39.3	38.2	30.0	40.0	25.0	35.0	29.0	36.0	35.0	41.0	42.0
Louisiana	4,576.8	4,226.5	3,827.2	3,470.6	3,600.0	3,448.0	2,780.0	2,751.0	2,985.0	2,728.0	2,707.0	2,661.0	2,642.0
Michigan	72.4	82.3	93.3	138.8	233.0	220.0	159.0	205.0	240.0	184.0	209.0	180.0	191.0
Mississippi	291.0	261.4	231.2	214.2	241.0	250.0	238.0	202.0	209.0	223.0	205.0	201.0	184.0
Montana	219.3	207.4	164.0	152.7	175.0	158.0	152.0	179.0	186.0	216.0	234.0	224.0	232.0
Nebraska	28.2	26.8	28.4	31.3	22.0	30.0	25.0	46.0	41.0	32.0	44.0	46.0	42.0
New Mexico	643.0	625.0	588.1	535.5	605.0	579.0	563.0	547.0	555.0	563.0	576.0	660.0	688.0
New York	8.3	10.9	10.0	9.2	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
North Dakota	179.5	172.8	158.2	149.6	155.0	162.0	211.0	214.0	223.0	237.0	258.0	260.0	255.0
Ohio	124.9	123.9	121.3	125.3	74.0	69.0	82.0	116.0	112.0	111.0	130.0	116.0	79.0
Oklahoma	1,271.0	1,232.4	1,239.7	1,186.6	1,109.0	979.0	1,014.0	930.0	950.0	971.0	931.0	940.0	935.0
Pennsylvania	39.6	50.4	48.0	50.6	57.0	27.0	33.0	35.0	32.0	37.0	41.0	40.0	38.0
South Dakota	(a)	(a)	1.9	1.5	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	1.5	1.9	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Texas	11,756.6	11,001.5	10,080.0	9,226.3	9,751.0	8,911.0	8,284.0	8,206.0	8,093.0	7,616.0	7,539.0	7,557.0	7,894.0
Utah	264.5	250.6	208.3	183.2	252.0	188.0	201.0	198.0	190.0	173.0	187.0	172.0	276.0
West Virginia	32.1	32.2	31.4	30.0	21.0	30.0	48.0	30.0	30.0	48.0	49.0	76.0	40.0
Wyoming	916.8	903.4	877.4	827.8	851.0	845.0	841.0	928.0	840.0	856.0	957.0	954.0	951.0
Miscellaneous	7.6	8.5	5.4	6.2	23.0	24.0	22.0	38.0	40.0	33.0	30.0	23.0	35.0
TOTAL U.S.(b,c)	35,299.8	34,250.0	32,682.1	30,942.2	31,780.0	31,355.0	29,810.0	29,805.0	29,426.0	27,858.0	27,735.0	28,446.0	28,416.0

See notes and sources at end of table

United States Proved Crude Oil Reserves by State
Annually as of December 31
(In Millions of Barrels)

State	1986	1987	1988	1989	1990
Alabama	55.0	55.0	54.0	43.0	44.0
Alaska	6,875.0	7,378.0	6,959.0	6,674.0	6,524.0
Arkansas	88.0	82.0	77.0	66.0	60.0
California	4,734.0	4,709.0	4,879.0	4,816.0	4,658.0
Colorado	207.0	272.0	257.0	359.0	305.0
Florida	67.0	61.0	59.0	50.0	42.0
Illinois	135.0	153.0	143.0	123.0	131.0
Indiana	32.0	23.0	22.0	16.0	12.0
Kansas	312.0	357.0	327.0	338.0	321.0
Kentucky	31.0	25.0	34.0	33.0	33.0
Louisiana	826.0	807.0	800.0	745.0	705.0
Michigan	146.0	151.0	132.0	128.0	124.0
Mississippi	199.0	202.0	221.0	218.0	227.0
Montana	248.0	246.0	241.0	225.0	221.0
Nebraska	45.0	33.0	42.0	32.0	26.0
New Mexico	644.0	654.0	661.0	665.0	687.0
New York	(a)	(a)	(a)	(a)	(a)
North Dakota	218.0	215.0	216.0	246.0	285.0
Ohio	72.0	66.0	64.0	56.0	65.0
Oklahoma	874.0	788.0	796.0	789.0	734.0
Pennsylvania	26.0	26.0	27.0	26.0	22.0
South Dakota	(a)	(a)	(a)	(a)	(a)
Tennessee	(a)	(a)	(a)	(a)	(a)
Texas	7,152.0	7,112.0	7,043.0	6,966.0	7,106.0
Utah	269.0	284.0	260.0	246.0	249.0
West Virginia	37.0	34.0	33.0	30.0	31.0
Wyoming	849.0	854.0	815.0	825.0	794.0
Miscellaneous	33.0	30.0	34.0	39.0	43.0
TOTAL U.S.(b,c)	26,889.0	27,256.0	26,825.0	26,501.0	26,254.0

(a) Included in Miscellaneous.
(b) Totals may not add due to independent rounding.
(c) 1986 includes 2,715 from federal offshore waters, 1987 = 2,639, 1988 = 2,629, 1989 = 2,747, 1990 = 2,805

SOURCE: 1947-1976: API, AGA and CPA, Reserves of Crude Oil, Natural Gas Liquids and Natural Gas in the United States and Canada, Annual Reports
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves, Annuals.

Section II
Table 4

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1975	Nation	1976	Nation	1977	Nation	1978
1. Saudi Arabia(a)	164,500,000	1. Saudi Arabia(a)	148,600,000	1. Saudi Arabia(a)	151,400,000	1. Saudi Arabia(a)	150,000,000
2. U.S.S.R.	83,400,000	2. U.S.S.R.	80,400,000	2. U.S.S.R.	78,100,000	2. U.S.S.R.	75,000,000
3. Kuwait(a)	72,800,000	3. Kuwait(a)	68,000,000	3. Kuwait(a)	67,400,000	3. Kuwait(a)	67,000,000
4. Iran	66,000,000	4. Iran	64,500,000	4. Iran	63,000,000	4. Iran	62,000,000
5. Iraq	35,000,000	5. Iraq	34,300,000	5. Iraq	34,000,000	5. Iraq	34,500,000
6. United States	34,249,956	6. United States	32,682,127	6. United Arab Emirates	31,200,000	6. United Arab Emirates	32,425,000
7. United Arab Emirates	33,920,000	7. United Arab Emirates	32,200,000	7. United States	33,502,000	7. United States	31,780,000
8. Libya	26,600,000	8. Libya	26,100,000	8. Libya	25,500,000	8. Libya	25,000,000
9. China	25,000,000	9. Nigeria	20,200,000	9. China	20,000,000	9. China	20,000,000
10. Nigeria	20,900,000	10. China	20,000,000	10. Nigeria	19,500,000	10. United Kingdom	19,000,000
11. United Kingdom	15,700,000	11. Venezuela	17,700,000	11. United Kingdom	16,800,000	11. Nigeria	18,700,000
12. Venezuela	15,000,000	12. United Kingdom	16,000,000	12. Venezuela	15,270,000	12. Venezuela	18,200,000
13. Indonesia	15,000,000	13. Indonesia	14,000,000	13. Indonesia	10,500,000	13. Mexico	14,000,000
14. Mexico	13,582,000	14. Mexico	9,500,000	14. Mexico	7,000,000	14. Indonesia	10,000,000
15. Algeria	7,700,000	15. Algeria	7,370,000	15. Algeria	6,800,000	15. Algeria	6,600,000
16. Norway	7,300,000	16. Norway	7,000,000	16. Canada	6,257,082	16. Norway	6,000,000
17. Canada	7,171,229	17. Canada	6,653,002	17. Oman	5,800,000	17. Canada	5,970,872
18. Oman	6,000,000	18. Oman	5,900,000	18. Qatar	5,700,000	18. Oman	5,650,000
19. Qatar	6,000,000	19. Qatar	5,850,000	19. Norway	5,660,000	19. Qatar	5,600,000
20. Congo Republic	4,874,000	20. Egypt	3,900,000	20. India	3,000,000	20. India	3,000,000
TOTAL WORLD	712,418,535	TOTAL WORLD	657,920,849	TOTAL WORLD	642,639,400	TOTAL WORLD	647,998,800

See notes and sources at end of table

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1979	Nation	1980	Nation	1981	Nation	1982
1. Saudi Arabia(a)	165,700,000	1. Saudi Arabia(a)	163,350,000	1. Saudi Arabia(a)	165,000,000	1. Saudi Arabia(a)	164,600,000
2. U.S.S.R.	71,000,000	2. U.S.S.R.	67,000,000	2. Kuwait(a)	64,900,000	2. Kuwait(a)	64,480,000
3. Kuwait(a)	66,200,000	3. Kuwait(a)	65,400,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000
4. Iran	59,000,000	4. Iran	58,000,000	4. Iran	57,500,000	4. Iran	57,000,000
5. Iraq	32,100,000	5. Mexico	31,250,000	5. Mexico	44,000,000	5. Mexico	56,990,000
6. United States	31,355,000	6. Iraq	31,000,000	6. United Arab Emirates	30,410,000	6. United Arab Emirates	32,176,000
7. United Arab Emirates	31,316,000	7. United States	29,810,000	7. Iraq	30,000,000	7. United States	29,426,000
8. Libya	24,300,000	8. United Arab Emirates	29,411,300	8. United States	29,805,000	8. Iraq	29,700,000
9. China	20,000,000	9. Libya	23,500,000	9. Libya	23,000,000	9. Libya	22,600,000
10. Nigeria	18,200,000	10. China	20,000,000	10. China	20,500,000	10. Venezuela	20,300,000
11. Venezuela	18,000,000	11. Venezuela	17,870,000	11. Venezuela	17,950,000	11. China	19,895,000
12. Mexico	16,000,000	12. Nigeria	17,400,000	12. Nigeria	16,700,000	12. Nigeria	16,500,000
13. United Kingdom	16,000,000	13. United Kingdom	15,400,000	13. United Kingdom	14,800,000	13. United Kingdom	14,800,000
14. Indonesia	10,200,000	14. Indonesia	9,600,000	14. Indonesia	9,500,000	14. Indonesia	9,800,000
15. Canada	6,860,000	15. Algeria	8,440,000	15. Algeria	8,200,000	15. Algeria	8,080,000
16. Algeria	6,300,000	16. Canada	6,800,000	16. Canada	6,400,000	16. Norway	7,620,000
17. Norway	5,900,000	17. Norway	5,750,000	17. Norway	5,500,000	17. Canada	7,300,000
18. Qatar	4,000,000	18. Qatar	3,760,000	18. Qatar	3,585,000	18. Qatar	3,434,000
19. Egypt	3,200,000	19. Egypt	3,100,000	19. Malaysia	3,000,000	19. Egypt	2,930,000
20. India	2,900,000	20. Malaysia	2,800,000	20. Egypt(2)	2,900,000	20. Malaysia	2,800,000
TOTAL WORLD	645,322,800	TOTAL WORLD	644,933,000	TOTAL WORLD	651,929,712	TOTAL WORLD	670,350,150

See notes and sources at end of table

Section II
Table 4b

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1983	Nation	1984	Nation	1985	Nation	1986
1. Saudi Arabia(a)	162,400,000	1. Saudi Arabia(a)	166,000,000	1. Saudi Arabia(a)	169,000,000	1. Saudi Arabia(a)	168,800,000
2. Kuwait(a)	64,230,000	2. Kuwait(a)	63,900,000	2. Kuwait(a)	90,000,000	2. Kuwait(a)	89,774,000
3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	63,000,000	3. U.S.S.R.	61,000,000
4. Iran	55,308,000	4. Iran	51,000,000	4. Mexico	48,600,000	4. Mexico	49,300,000
5. Mexico	48,300,000	5. Mexico	48,000,000	5. Iran	48,500,000	5. Iran	47,876,000
6. Iraq	41,000,000	6. Iraq	43,000,000	6. Iraq	44,500,000	6. Iraq	44,110,000
7. United Arab Emirates	32,354,000	7. United Arab Emirates	32,240,000	7. United Arab Emirates	32,390,000	7. United Arab Emirates	32,890,000
8. United States	27,858,000	8. United States	27,735,000	8. United States	28,446,000	8. United States	28,416,000
9. Libya	21,500,000	9. Venezuela	24,850,000	9. Venezuela	25,845,000	9. Venezuela	25,591,000
10. Venezuela	21,500,000	10. Libya	21,270,000	10. Libya	21,100,000	10. Libya	21,300,000
11. China	19,485,000	11. China	19,100,000	11. China	19,100,000	11. China	18,420,000
12. Nigeria	16,750,000	12. Nigeria	16,550,000	12. Nigeria	16,650,000	12. Nigeria	16,600,000
13. United Kingdom	13,900,000	13. United Kingdom	13,150,000	13. United Kingdom	13,590,000	13. United Kingdom	13,000,000
14. Indonesia	9,550,000	14. Algeria	9,220,000	14. Algeria	9,000,000	14. Norway	10,900,000
15. Algeria	9,440,000	15. Indonesia	9,100,000	15. Indonesia	8,650,000	15. Algeria	8,820,000
16. Canada	7,020,000	16. Norway	7,660,000	16. Norway	8,300,000	16. Indonesia	8,500,000
17. Norway	6,800,000	17. Canada	6,730,000	17. Canada	7,075,000	17. Canada	6,500,000
18. Qatar	3,425,000	18. India	3,485,000	18. Oman	3,500,000	18. Oman	4,000,000
19. Malaysia	3,325,000	19. Egypt	3,450,000	19. India	3,500,000	19. Egypt	3,850,000
20. Egypt	3,325,000	20. Qatar	3,330,000	20. Qatar	3,350,000	20. India	3,736,000
TOTAL WORLD	668,262,406	TOTAL WORLD	669,737,600	TOTAL WORLD	699,813,400	TOTAL WORLD	700,566,560

See notes and sources at end of table

Section II
Table 4c

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1987	Nation	1988	Nation	1989	Nation	1990
1. Saudi Arabia	166,573,900	1. Saudi Arabia	166,980,000	1. Saudi Arabia	169,970,000	1. Saudi Arabia	254,959,000
2. Kuwait	91,916,000	2. Iraq	100,000,000	2. Iraq	100,000,000	2. Iraq	100,000,000
3. U.S.S.R.	59,000,000	3. United Arab Emirates	97,705,000	3. United Arab Emirates	97,705,000	3. United Arab Emirates	97,705,000
4. Mexico	54,653,000	4. Iran	92,850,000	4. Iran	92,850,000	4. Kuwait	94,525,000
5. Iran	48,800,000	5. Kuwait	91,920,000	5. Kuwait	91,920,000	5. Iran	92,860,000
6. Iraq	47,100,000	6. U.S.S.R.	59,000,000	6. U.S.S.R.	58,500,000	6. Venezuela	58,504,000
7. United Arab Emirates	32,850,000	7. Venezuela	56,300,000	7. Venezuela	58,083,900	7. U.S.S.R.	58,400,000
8. United States	26,889,000	8. Mexico	48,610,000	8. Mexico	54,110,000	8. Mexico	56,365,000
9. Venezuela	25,000,000	9. United States	27,256,000	9. United States	26,825,000	9. United States	26,501,000
10. Libya	21,300,000	10. Libya	21,000,000	10. China	23,500,000	10. China	24,000,000
11. China	18,400,000	11. China	18,400,000	11. Libya	22,000,000	11. Libya	22,800,000
12. Nigeria	16,000,000	12. Nigeria	15,980,000	12. Nigeria	16,000,000	12. Nigeria	16,000,000
13. Norway	10,500,000	13. Norway	14,800,000	13. Norway	10,435,000	13. Norway	11,546,204
14. United Kingdom	9,000,000	14. Algeria	8,500,000	14. Algeria	8,400,000	14. Algeria	9,200,000
15. Algeria	8,800,000	15. Indonesia	8,400,000	15. Indonesia	8,250,000	15. Indonesia	8,200,000
16. Indonesia	8,300,000	16. Canada	6,825,000	16. Canada	6,785,514	16. India	7,516,400
17. Canada	6,850,000	17. United Kingdom	5,200,000	17. India	6,354,200	17. Canada	6,133,495
18. India	4,202,000	18. Egypt	4,300,000	18. United Kingdom	5,175,000	18. Neutral Zone	5,200,000
19. Oman	4,032,000	19. India	4,250,000	19. Egypt	4,300,000	19. Qatar	4,500,000
20. Egypt	3,600,000	20. Oman	4,012,000	20. Oman	4,071,160	20. Egypt	4,500,000
TOTAL WORLD	699,778,700	TOTAL WORLD	889,344,500	TOTAL WORLD	907,767,751	TOTAL WORLD	1,002,212,623

See notes and sources at end of table

Estimated Proved World Crude Oil Reserves--Twenty Leading Nations
Annually as of January 1
(Thousands of barrels)

Nation	1991	Nation	1992
1. Saudi Arabia	257,504,000	1. Saudi Arabia	257,842,000
2. Iraq	100,000,000	2. Iraq	100,000,000
3. United Arab Emirates	97,700,000	3. United Arab Emirates	97,700,000
4. Kuwait	94,525,000	4. Kuwait	94,000,000
5. Iran	92,850,000	5. Iran	92,860,000
6. Venezuela	59,040,000	6. Venezuela	59,100,000
7. U.S.S.R	57,000,000	7. U.S.S.R	57,000,000
8. Mexico	51,983,000	8. Mexico	51,298,000
9. United States	26,254,000	9. United States	26,250,000
10. China	24,000,000	10. China	24,000,000
11. Libya	22,800,000	11. Libya	22,800,000
12. Nigeria	17,100,000	12. Nigeria	17,899,800
13. Indonesia	11,050,000	13. Algeria	9,200,000
14. Algeria	9,200,000	14. Norway	7,609,400
15. India	7,997,100	15. Indonesia	6,581,300
16. Norway	7,609,412	16. India	6,126,700
17. Canada	5,782,949	17. Canada	5,587,800
18. Neutral Zone	5,000,000	18. Neutral Zone	5,000,000
19. Qatar	4,500,000	19. Egypt	4,500,000
20. Egypt	4,500,000	20. Oman	4,250,000
TOTAL WORLD	999,113,472	TOTAL WORLD	991,011,400

(a) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations. Neutral Zone reserves are not included in the above figures.

SOURCE: 1975-1976: United States: American Petroleum Institute, Committee on Reserves and Productive Capacity.
1977-1991: United States: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas Liquids and Natural Gas Reserves.
1975-1980: Canada: Canadian Petroleum Association.
1975-1991: Other Nations, Oil and Gas Journal, "Worldwide Report" issue.
1992: All nations, Oil and Gas Journal, Worldwide Production Report.

USGS Estimates of United States Oil and Gas Reserves
(as of January 1,1987)

Region	Cumulative Production	Reserves		Undiscovered Recoverable Resources			Undiscovered Economically Recoverable Resources		
		Measured	Inferred and Indicated(a)	F95(d)	Mean(c)	F5(d)	F95(d)	Mean(c)	F5(d)
Onshore and State Waters									
1. Alaska									
Oil	6.1	6.9	6.4	3.6	13.2	31.3	1.1	7.9	23.8
Gas	3.8	32.7	3	15.6	57.9	138.6	0.2	1.2	3.7
2. Pacific Coast									
Oil	20.3	4.7	1.2	1.5	3.5	6.6	1.4	3.4	6.5
Gas	33.2	3.9	2.6	5.5	11	19.1	5.1	10.6	18.8
3. Colorado Plateau and Basin and Range									
Oil	3.1	0.6	0.4	0.5	1.5	3.4	0.4	1.5	3.3
Gas	24.7	17.1	4.9	9.6	21.3	39.3	9.4	21	38.9
4. Rocky Mountains and Great Plains									
Oil	7.1	1.2	1.3	2.7	4.5	6.9	2.2	3.8	6
Gas	13.1	7.6	3.6	7	15.2	27.8	6.2	14.2	26.5
5. West Texas and Eastern New Mexico									
Oil	30.2	5.4	3.8	1.5	2.6	4	1.4	2.4	3.8
Gas	82.2	16.7	12.9	11.9	20.1	31.3	11.2	19.3	30.3
6. Gulf Coast									
Oil	43.1	3.7	5.7	2.4	4.2	6.7	2.2	4	6.5
Gas	285.6	33.6	42.3	51.2	82.5	123.6	47.7	79.3	121.6
7. Mid-Continent									
Oil	17.3	1.1	1.4	1.2	1.9	2.7	1.1	1.7	2.5
Gas	145.4	37.5	18.3	16.2	28.7	46	15	26.8	43.1
8. Eastern Interior									
Oil	8.4	0.5	0.7	1.3	1.8	2.4	1.3	1.8	2.4
Gas	33.9	8.2	5	10.8	17.2	25.7	10.1	16.3	24.5
9. Atlantic Coast									
Oil	0.1	0.1	0.1	0.1	0.2	0.5	0.1	0.2	0.5
Gas	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1
Total Onshore and State Waters									
Oil	135.6	24.2	21.1	19.6	33.3	51.9	13.9	26.6	45.0
Gas	622.0	157.4	92.7	178.7	254.0	346.7	145.6	188.7	239.1
NGL	+ (b)	+ (b)	3.8	5.0	6.8	9.0	4.0	5.5	7.4
Federal Offshore									
1A. Alaska									
Oil	0.0	0.0	0.0	0.6	3.4	9.4	0.0	0.9	4.8
Gas	0.0	0.0	0.0	4.7	16.8	39.4	0.0	0.0	0.0

See notes and sources at end of table

USGS Estimates of United States Oil and Gas Reserves
(as of January 1,1987)

Region	Cumulative Production	Reserves		Undiscovered Recoverable Resources			Undiscovered Economically Recoverable Resources		
		Measured	Inferred and Indicated(a)	F95(d)	Mean(c)	F5(d)	F95(d)	Mean(c)	F5(d)
2A. Pacific Coast									
Oil	0.4	1.3	0.2 (a)	0.9	3.4	8.3	0.4	2.0	5.5
Gas	0.3	2.1	0.3 (a)	3.5	8.0	15.1	1.8	5.2	11.0
6A. Gulf of Mexico									
Oil	6.9	4.0	0.4 (a)	4.9	8.6	13.6	2.6	5.0	8.6
Gas	75.2	47.0	5.8 (a)	63.0	103.3	156.9	36.0	64.3	103.7
9A. Atlantic Coast									
Oil	0.0	0.0	0.0	0.1	0.7	2.3	0.0	0.2	0.8
Gas	0.0	0.0	0.0	6.8	17.0	33.7	0.0	4.5	9.8
Total Federal Offshore									
Oil	7.3	5.3	0.6 (a)	9.2	16.1	25.6	4	8.2	14.3
Gas	75.5	49.2	6.1 (a)	97.8	145.1	204.8	44.3	74	113.8
NGL	+ (b)	+ (b)	0.2	0.6	1.8	3.8	0.2	0.8	1.8
Total United States									
Oil	142.9	29.5	21.7	33.2	49.4	69.9	20.7	34.8	53.8
Gas	697.5	206.6	98.8	306.8	399.1	507.2	208.2	262.7	325.5
NGL	24.4	8.2	4.0	6.1	8.6	11.5	4.6	6.3	8.4

NOTE: Oil in billion barrels; gas in trillion feet; natural gas liquies in billion barrels. NGL shown only in total.
(a) Indicated reserves are included with measured reserves estimated by the Minerals Management Service.
(b) Not known.
(c) Mean value totals may not be equal to the sums of the constituent means because numbers have been independently rounded.
(d) Fractile values (F95,F5) are not additive. Gas includes both nonassociated and associated-dissolved gas. F95 represents a 19 in 20 chance and F5 represents a 1 in 20 chance of the occurrence of at least the amount tabulated.

SOURCE: U.S. Department of Interior, U.S. Geological Survey, Estimates of Undiscovered Conventional Oil and Gas Resources in the United States--A Part of the Nation's Energy Endowment, 1989

BASIC PETROLEUM DATA BOOK

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United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
New-Field Wildcat Wells									
1947	275	1,434,351	119	662,513	3,086	12,509,723	3,480	14,606,587	11.3
1948	366	1,791,437	135	899,514	3,795	16,048,313	4,296	18,739,264	11.7
1949	364	1,813,650	142	973,124	3,943	15,372,983	4,449	18,159,757	11.4
1950	462	2,345,714	130	800,276	4,698	18,972,164	5,290	22,118,254	11.2
1951	515	2,784,458	169	1,046,805	5,505	24,116,951	6,189	27,948,214	11.1
1952	556	3,122,962	185	1,310,227	5,957	28,068,745	6,698	32,501,934	11.1
1953	581	3,288,855	193	1,244,946	6,151	29,321,262	6,925	33,855,063	11.2
1954	639	3,577,418	263	1,761,483	6,478	30,149,120	7,380	35,488,021	12.2
1955	659	3,667,073	260	1,664,789	7,186	33,654,112	8,105	38,985,974	11.3
1956	628	3,690,270	240	1,762,688	7,874	36,913,273	8,742	42,366,231	9.9
1957	590	3,403,283	282	2,099,922	7,142	33,600,397	8,014	39,103,602	10.9
1958	518	2,963,220	268	2,077,923	6,164	29,161,083	6,950	34,202,226	11.3
1959	466	2,710,157	306	2,113,934	6,259	30,635,114	7,031	35,459,205	11.0
1960	448	2,614,001	297	2,136,721	6,575	31,130,339	7,320	35,881,061	10.2
1961	429	2,304,472	316	2,373,465	6,164	30,733,007	6,909	35,410,944	10.8
1962	470	2,670,875	317	2,380,930	6,007	29,832,533	6,794	34,884,338	11.6
1963	529	2,629,952	240	1,550,207	5,801	29,371,086	6,570	33,551,245	11.7
1964	440	2,623,873	252	1,933,484	5,931	30,028,416	6,623	34,585,773	10.4
1965	397	2,279,545	234	1,849,272	5,544	27,933,474	6,175	32,062,291	10.2
1966	403	2,437,921	232	1,888,322	5,523	27,052,375	6,158	31,378,618	10.3
1967	371	2,255,638	189	1,496,083	4,700	24,255,198	5,260	28,006,919	10.6
1968	321	2,012,067	127	1,046,358	4,757	27,190,387	5,205	30,248,812	8.6
1969	344	2,237,551	191	1,669,263	5,421	31,511,973	5,956	35,418,787	9.0
1970 (a)	292	1,952,666	189	1,607,386	4,348	25,412,904	4,829	28,972,956	10.0
1971	246	1,616,540	229	1,716,792	4,161	24,366,037	4,636	27,699,369	10.2
1972	287	1,861,279	270	2,056,516	4,454	26,780,915	5,011	30,698,710	11.1
1973	299	1,874,576	451	3,111,795	4,346	25,631,606	5,096	30,617,977	14.7
1974	396	2,447,814	466	3,172,478	5,084	29,289,318	5,946	34,909,610	14.5
1975	437	2,918,538	486	3,593,502	5,315	31,198,873	6,238	37,710,913	14.8
1976	458	3,013,230	527	3,786,300	4,871	28,898,393	5,856	35,697,923	16.8
1977	458	2,839,680	534	3,868,753	5,170	30,636,898	6,162	37,345,331	16.1
1978	484	3,164,038	644	4,297,038	5,603	34,550,903	6,731	42,011,979	16.8
1979	532	3,468,220	688	4,947,501	5,203	31,941,489	6,423	40,357,210	19.0
1980	664	4,310,733	695	4,764,991	5,973	36,802,580	7,332	45,878,304	18.5
1981	868	6,030,600	720	5,593,603	7,563	47,904,317	9,151	59,528,520	17.4
1982	707	4,613,633	618	4,575,677	6,061	37,840,415	7,386	47,029,725	17.9
1983	508	3,169,330	486	3,101,355	5,063	29,167,196	6,057	35,437,881	16.4
1984	554	3,806,830	429	2,877,818	5,545	34,525,367	6,528	41,210,015	15.1
1985	414	2,890,672	358	2,618,903	4,858	31,087,959	5,630	36,597,534	13.7
1986	270	1,751,349	218	1,446,276	2,996	18,551,934	3,484	21,749,559	14.0
1987	279	1,780,312	229	1,504,975	3,007	17,145,266	3,515	20,430,553	14.5
1988	226	1,520,246	238	1,647,342	2,807	17,369,625	3,271	20,537,213	14.2
1989	152	1,011,720	215	1,386,366	2,277	13,495,104	2,644	15,893,190	13.9

See notes and sources at end of table

Section III
Table 1a

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
New-Field Wildcat Wells									
1990	215	1,560,298	192	1,359,376	2,208	13,503,591	2,615	16,423,265	15.6
1991	130	857,121	120	871,679	1,548	9,786,354	1,798	11,515,154	13.9

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
Total Exploratory									
1947	982	4,280,672	396	1,895,491	5,397	20,217,185	6,775	26,393,348	20.3
1948	1,098	4,883,179	365	2,306,271	6,550	25,561,647	8,013	32,751,097	18.3
1949	1,406	5,950,460	424	2,409,230	7,228	26,438,601	9,058	34,798,291	20.2
1950	1,583	6,861,758	431	2,356,021	8,292	30,957,394	10,306	40,175,173	19.5
1951	1,763	8,125,473	454	2,495,592	9,539	38,722,629	11,756	49,343,694	18.9
1952	1,776	8,490,701	559	3,393,813	10,090	43,730,875	12,425	55,615,389	18.8
1953	1,981	9,431,700	699	3,952,118	10,633	47,279,793	13,313	60,663,611	20.1
1954	1,985	9,409,404	726	4,399,196	10,389	45,791,944	13,100	59,600,544	20.7
1955	2,236	10,774,397	874	5,212,258	11,832	53,219,667	14,942	69,206,322	20.8
1956	2,267	11,110,534	822	5,179,111	13,118	58,047,439	16,207	74,337,084	19.1
1957	1,945	9,794,182	865	5,966,961	11,904	53,420,086	14,714	69,181,229	19.1
1958	1,745	8,712,007	822	5,472,151	10,632	47,299,753	13,199	61,483,911	19.4
1959	1,702	8,544,972	912	6,031,180	10,577	48,676,369	13,191	63,252,521	19.8
1960	1,321	6,829,122	868	5,466,439	9,515	43,535,075	11,704	55,830,636	18.7
1961	1,157	5,899,555	813	5,249,616	9,022	38,054,853	10,992	49,204,024	17.9
1962	1,211	6,205,402	771	5,187,452	8,815	44,103,834	10,797	55,496,688	18.4
1963	1,314	6,409,095	664	4,229,802	8,686	42,846,565	10,664	53,485,462	18.5
1964	1,219	6,715,355	577	4,203,534	8,951	42,655,665	10,747	53,574,554	16.7
1965	946	5,365,758	515	3,757,004	8,005	45,319,365	9,466	54,442,127	15.4
1966	1,030	5,880,029	578	4,881,198	8,705	44,461,934	10,313	55,223,161	15.6
1967	986	5,677,675	532	3,978,526	7,360	38,182,439	8,878	47,838,640	17.1
1968	954	5,642,235	486	3,740,781	7,439	41,575,022	8,879	50,958,038	16.2
1969	1,084	6,563,032	616	4,984,622	8,001	45,918,308	9,701	57,465,962	17.5
1970 (a)	763	4,729,423	478	3,666,020	6,195	35,135,039	7,436	43,530,482	16.7
1971	664	3,785,858	472	3,612,832	5,995	34,563,763	7,131	41,962,453	15.9
1972	690	4,042,124	659	4,872,314	6,202	36,364,835	7,551	45,279,273	17.9
1973	654	4,046,218	1,079	7,074,241	6,038	34,928,875	7,771	46,049,334	22.3
1974	870	5,068,782	1,205	7,741,846	6,894	38,861,593	8,969	51,672,221	23.1
1975	991	5,822,068	1,261	8,468,203	7,207	40,755,363	9,459	55,045,634	23.8
1976	1,100	6,493,760	1,361	9,187,178	6,856	38,211,252	9,317	53,892,190	26.4
1977	1,181	6,870,706	1,557	10,204,224	7,402	41,136,466	10,140	58,211,396	27.0
1978	1,189	7,098,457	1,786	11,780,690	8,055	46,616,063	11,030	65,495,210	27.0
1979	1,335	7,991,579	1,921	12,634,380	7,479	42,736,704	10,735	63,362,663	30.3
1980	1,777	10,109,549	2,085	13,710,438	9,008	49,992,439	12,870	73,812,426	30.0
1981	2,661	15,418,060	2,522	16,996,454	12,247	68,653,990	17,430	101,068,504	29.7
1982 (b)	2,481	13,415,348	2,172	14,713,785	11,229	60,301,560	15,882	88,430,693	29.3
1983	2,129	10,544,047	1,654	10,235,772	10,062	48,472,448	13,845	69,252,267	27.3
1984	2,334	12,621,000	1,588	9,943,000	11,216	58,759,000	15,138	81,323,000	25.9
1985	1,724	10,068,000	1,283	8,694,000	9,201	49,571,000	12,208	68,333,000	24.6

See notes and sources at end of table

United States Exploratory Wells and Footage

Year	Oil Wells	Footage	Gas Wells	Footage	Dry Holes	Footage	Total	Footage	Success Ratio
	Total Exploratory								
1986	993	5,990,000	749	5,082,000	5,414	29,973,000	7,156	41,045,000	24.3
1987	894	5,294,000	708	4,693,000	5,301	27,370,000	6,903	37,357,000	23.2
1988	813	4,924,000	692	4,706,000	4,845	27,050,000	6,350	36,680,000	23.7
1989	600	3,580,000	676	4,375,000	3,975	21,812,000	5,251	29,767,000	24.3
1990	637	4,238,000	638	4,391,000	3,779	21,628,000	5,054	30,257,000	25.2
1991	551	3,422,000	491	3,301,000	3,274	18,700,000	4,316	25,423,000	24.1

(a) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970, the statistics show the year in which the wells were completed regardless of the time frame in which they were reported to API.

(b) Data beginning with 1982 are for estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15d (state data), which represent reported completions.

SOURCE: 1947-1966: American Association of Petroleum Geologists.
1967-1969: API, Quarterly Review of Drilling Statistics.
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: API, Quarterly Completions Reports.

Section III
Table 2

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total	Footage
Development Wells(a)								
1947	17,017		2,909		4,141		24,067	87,667,652
1948	21,487		2,532		5,476		29,495	104,640,903
1949	20,636		2,463		5,499		28,598	103,204,709
1950	22,847		2,412		6,465		31,724	119,112,827
1951	21,690		2,576		7,114		31,380	122,987,306
1952	21,690		2,696		7,528		31,914	131,574,611
1953	23,781		3,107		7,816		34,704	138,175,389
1954	27,788		3,251		8,779		39,818	159,385,456
1955	29,331		2,739		8,910		40,980	157,063,678
1956	28,463		3,721		8,720		40,904	161,564,916
1957	26,067		3,755		9,079		38,901	152,719,310
1958	22,833		3,981		8,411		35,225	136,740,181
1959	24,098		4,117		8,688		36,903	145,978,895
1960	19,865		4,390		8,059		32,314	134,872,036
1961	19,944		4,851		8,084		32,879	142,912,090
1962	20,038		5,077		7,867		32,982	143,061,953
1963	18,974		4,087		7,661		30,722	130,871,538
1964	19,401		4,278		8,537		32,216	136,347,316
1965	17,815		4,209		8,020		30,044	126,984,888
1966	15,417	59,562,661	3,589	19,562,196	7,065	28,097,191	26,071	107,222,048
1967	14,343	52,955,743	3,127	17,601,654	5,886	22,960,426	23,356	93,517,823
1968	13,377	53,874,620	2,970	16,975,492	5,373	23,162,297	21,720	94,012,409
1969	13,284	55,018,970	3,467	19,177,390	5,735	25,445,537	22,486	99,641,897
1970 (c)	12,280	52,101,320	3,553	19,950,845	4,904	22,976,880	20,737	95,029,045
1971	11,239	45,271,862	3,511	19,807,020	4,387	20,214,617	19,137	85,293,499
1972	10,747	45,441,840	4,825	25,384,401	4,811	22,691,048	20,383	93,517,289
1973	9,597	40,712,974	5,896	31,137,367	4,428	21,525,063	19,921	93,375,404
1974	12,794	47,001,530	5,963	30,739,691	5,311	24,362,957	24,068	102,104,178
1975	15,988	61,103,799	6,908	36,012,511	6,529	28,878,049	29,425	125,994,359
1976	16,597	62,333,936	8,077	40,010,511	6,949	31,052,949	31,623	133,397,396
1977	17,519	68,320,374	10,562	53,295,651	7,634	35,868,457	35,715	157,484,482
1978	17,876	69,522,882	12,619	63,809,274	8,536	39,558,882	39,031	172,891,038
1979	19,354	74,150,995	13,245	67,240,506	8,556	38,931,266	41,155	180,322,767
1980	30,343	113,154,164	15,047	76,641,633	11,226	47,836,614	56,616	237,632,411
1981	39,859	153,287,896	17,220	88,782,627	14,725	63,381,426	71,804	305,451,949
1982 (d)	36,771	134,817,629	16,638	90,474,536	14,598	61,660,061	68,007	286,952,226
1983	35,267	125,726,889	12,851	66,429,973	13,775	55,208,335	61,893	247,365,197
1984	42,138	155,025,000	13,374	71,706,000	14,333	60,742,000	69,845	287,473,000
1985	34,734	132,253,000	11,634	62,200,000	12,230	53,992,000	58,598	248,445,000
1986	17,605	68,614,000	7,306	37,776,000	6,948	30,206,000	31,859	136,596,000
1987	15,547	60,599,000	7,406	38,305,000	6,397	27,587,000	29,350	126,491,000
1988	12,795	52,929,000	7,711	39,725,000	5,445	25,607,000	25,951	118,261,000
1989	9,708	39,640,000	8,385	42,433,000	4,324	20,553,000	22,417	102,626,000
1990	11,379	49,531,000	9,549	48,591,000	4,501	21,526,000	25,429	119,648,000
1991	11,763	51,701,000	8,294	44,203,000	4,405	21,106,000	24,462	117,010,000

See notes and sources at end of table

United States Development and Total Wells and Footage

Year		Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total Wells	Footage	Service Strat & Core	Grand Total
Total Wells											
1947		17,999		3,305		9,538		30,842	114,061,000	2,280	33,122
1948		22,585		2,897		12,026		37,508	137,392,000	2,270	39,778
1949		22,042		2,887		12,727		37,656	138,003,000	1,382	39,038
1950		24,430		2,843		14,757		42,030	159,288,000	1,249	43,279
1951		23,453		3,030		16,653		43,136	172,331,000	1,380	44,516
1952		23,466		3,255		17,618		44,339	187,190,000	1,482	45,821
1953		25,762		3,806		18,449		48,017	198,839,000	1,262	49,279
1954		29,773		3,974		19,168		52,915	218,986,000	1,012	53,927
1955		31,567		3,608		20,742		55,917	226,270,000	760	56,677
1956		30,737		4,543		21,797		57,077	233,902,000	1,049	58,126
1957		28,012		4,620		20,983		53,615	221,900,539	1,409	55,024
1958		24,578		4,803		19,043		48,424	198,224,092	1,615	50,039
1959		25,800		5,029		19,265		50,094	209,231,416	1,670	51,764
1960		21,186		5,258		17,574		44,018	190,702,672	2,733	46,751
1961		21,101		5,664		17,106		43,871	192,116,114	3,091	46,962
1962		21,249		5,848		16,682		43,779	198,558,641	2,400	46,179
1963		20,288		4,751		16,347		41,386	184,357,000	2,267	43,653
1964		20,620		4,855		17,488		42,963	189,921,870	2,273	45,236
1965		18,761		4,724		16,025		39,510	181,427,015	1,922	41,432
1966		16,447	65,442,690	4,167	24,443,394	15,770	72,559,125	36,384	162,445,209	2,152	38,536
1967		15,329	58,633,418	3,659	21,580,180	13,246	61,142,865	32,234	141,356,463	1,584	33,818
1968		14,331	59,516,855	3,456	20,716,273	12,812	64,737,319	30,599	144,970,447	2,315	32,914
1969		14,368	61,582,002	4,083	24,162,012	13,736	71,363,845	32,187	157,107,859	1,866	34,053
1970	(c)	13,043	56,830,743	4,031	23,616,865	11,099	58,111,919	28,173	138,559,527	1,369	29,542
1971		11,903	49,057,720	3,983	23,419,852	10,382	54,778,380	26,268	127,255,952	1,414	27,682
1972		11,437	49,483,964	5,484	30,256,715	11,013	59,055,883	27,934	138,796,562	1,486	29,420
1973		10,251	44,759,192	6,975	38,211,608	10,466	56,453,938	27,692	139,424,738	970	28,662
1974		13,664	52,070,312	7,168	38,481,537	12,205	63,224,550	33,037	153,776,399	1,378	34,415
1975		16,979	66,925,867	8,169	44,480,714	13,736	69,633,412	38,884	181,039,993	1,920	40,804
1976		17,697	68,827,696	9,438	49,197,689	13,805	69,264,201	40,940	187,289,586	1,674	42,614
1977		18,700	75,191,080	12,119	63,499,875	15,036	77,004,923	45,855	215,695,878	1,453	47,308
1978		19,065	76,621,339	14,405	75,589,964	16,591	86,174,945	50,061	238,386,248	1,610	51,671
1979		20,689	82,142,574	15,166	79,874,886	16,035	81,667,970	51,890	243,685,430	1,472	53,362
1980		32,120	123,263,713	17,132	90,352,071	20,234	97,829,053	69,486	311,444,837	2,076	71,562
1981		42,520	168,705,956	19,742	105,779,081	26,972	132,035,416	89,234	406,520,453	2,366	91,600
1982	(d)	39,252	148,232,977	18,810	105,188,321	25,827	121,961,621	83,889	375,382,919	2,212	86,101
1983		37,396	136,270,936	14,505	76,665,745	23,837	103,680,783	75,738	316,617,464	1,984	77,722
1984		44,472	167,646,000	14,962	81,649,000	25,549	119,501,000	84,983	368,796,000	2,190	87,173
1985		36,458	142,321,000	12,917	70,894,000	21,431	103,563,000	70,806	316,778,000	1,680	72,486
1986		18,598	74,604,000	8,055	42,858,000	12,362	60,179,000	39,015	177,641,000	769	39,784
1987		16,441	65,893,000	8,114	42,998,000	11,698	54,957,000	36,253	163,848,000	877	37,130
1988		13,608	57,853,000	8,403	44,431,000	10,290	52,657,000	32,301	154,941,000	953	33,254
1989		10,308	43,220,000	9,061	46,808,000	8,299	42,365,000	27,668	132,393,000	672	28,340
1990		12,016	53,769,000	10,187	52,982,000	8,280	43,154,000	30,483	149,905,000	786	31,269

See notes and sources at end of table

United States Development and Total Wells and Footage

Year	Oil Wells	Footage(b)	Gas Wells	Footage(b)	Dry Holes	Footage(b)	Total Wells	Footage	Service Strat & Core	Grand Total
Total Wells										
1991	12,314	55,123,000	8,785	47,504,000	7,679	39,806,000	28,778	142,433,000	790	29,568

(a) The number of development wells for 1947-1965 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil and Gas Journal.

(b) Footage not available prior to 1966.

(c) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970
were completed regardless of the time frame in which they were reported to API.

(d) Data beginning with 1982 are for estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15d (state data), which represent reported completions.

SOURCE: 1947-1965: American Association of Petroleum Geologists and Oil and Gas Journal.
1966-1969: API, Quarterly Review of Drilling Statistics
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: API, Quarterly Completion Reports.

United States Wells Drilled by Depth Interval

Year	Depth Interval (Feet)				Total Wells Drilled
	Under 5,000	5,000-9,999	10,000-14,999	15,000-over	
1959	34,867	11,719	2,757	220	49,563
1960	30,575	10,485	2,835	238	44,133
1961	30,289	10,658	2,789	252	43,988
1962	29,496	11,103	3,062	283	43,944
1963	28,524	10,342	2,723	264	41,853
1964	29,913	10,649	2,604	320	43,486
1965	25,697	11,081	2,491	327	39,596
1966	22,178	9,703	2,251	389	34,521
1967	20,359	8,668	2,130	381	31,538
1968	17,999	8,958	2,264	355	29,576
1969	17,067	9,690	2,378	346	29,481
1970	16,941	8,644	2,142	446	28,173
1971	15,909	7,947	2,005	407	26,268
1972	16,736	8,441	2,226	531	27,934
1973	16,272	8,848	2,105	467	27,692
1974	20,822	9,617	2,178	420	33,037
1975	24,632	11,299	2,504	449	38,884
1976	26,257	11,592	2,707	384	40,940
1977	28,923	13,350	3,121	461	45,855
1978	31,717	14,103	3,610	631	50,061
1979	33,253	14,121	3,824	692	51,890
1980	46,320	18,083	4,270	813	69,486
1981	58,780	23,884	5,578	992	89,234
1982 (a)	56,424	20,574	5,602	1289	83,889
1983	52,658	18,051	4,261	768	75,738
1984	56,838	22,280	5,154	711	84,983
1985	46,337	19,067	4,729	673	70,806
1986	24,989	10,769	2,846	411	39,015
1987	23,077	10,373	2,459	344	36,253
1988	19,388	9,864	2,635	414	32,301
1989	16,657	8,495	2,209	307	27,668
1990	17,876	9,517	2,729	361	30,483
1991	16,839	8,666	2,878	395	28,778

(a) Data beginning with 1982 have been revised to reflect estimated completions rather than reported completions. Therefore, these figures do not correspond to those on Table 15 (state data), which represent reported completions.

SOURCE: 1959-1969: API, Joint Association Survey.
1970-1981: API, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: API, Quarterly Completion Reports.

United States Petroleum Geophysical Exploration
(Crew Months)

Year	Seismic			Gravity-Magnetic-Other			All Methods		
	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total(b)
1951	(a)	(a)	6,537	(a)	(a)	802	(a)	(a)	7,339
1952	(a)	(a)	7,958	(a)	(a)	965	(a)	(a)	8,923
1953	(a)	(a)	7,666	(a)	(a)	1,006	(a)	(a)	8,672
1954	(a)	(a)	6,863	(a)	(a)	1,106	(a)	(a)	7,969
1955	2,791	4,299	7,090	419	655	1,150 (c)	3,210	4,954	8,240 (c)
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174
1964	1,360	2,742	4,102	76	228	309 (d)	1,436	2,970	4,411 (d)
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471
1966	1,496	2,176	3,672	57	88	163 (e)	1,553	0	3,835 (e)
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496
1968	1,138	2,130	3,268	15	104	122 (f)	1,153	2,234	3,390 (f)
1969	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472
1970	781	1,559	2,340	12	169	181	793	1,728	2,521
1971	656	1,999	2,655	10	97	107	666	2,096	2,762
1972	622	2,394	3,016	6	118	124	628	2,512	3,140
1973	607	2,392	2,999	18	56	74	625	2,448	3,073
1974	540	3,122	3,662	(a)	(a)	230	(a)	(a)	3,892
1975	543	2,860	3,416 (g)	(a)	(a)	271	(a)	(a)	3,687
1976	484	2,646	3,140 (g)	(a)	(a)	245	(a)	(a)	3,385
1977	499	2,564	3,063 (g)	(a)	(a)	120	(a)	(a)	3,183
1978	478	3,670	4,148 (g)	(a)	(a)	196	(a)	(a)	4,344
1979	829	3,571	4,400 (g)	(a)	(a)	199	(a)	(a)	4,599
1980	1,292	3,669	4,962	(a)	(a)	311	(a)	(a)	5,273
1981	1,038	4,839	5,877	(a)	(a)	382	(a)	(a)	6,259
1982	653	5,023	5,676	(a)	(a)	492	(a)	(a)	6,168
1983	588	4,356	4,944	(a)	(a)	334	(a)	(a)	5,278
1984	714	3,984	4,698	(a)	(a)	217	(a)	(a)	4,915
1985	470	3,024	3,494	(a)	(a)	279	(a)	(a)	3,773
1986	401	1,615	2,016	(a)	(a)	84	(a)	(a)	2,100
1987	283	1,278	1,561	(a)	(a)	258	(a)	(a)	1,819
1988	201	1,560	1,761	(a)	(a)	242	(a)	(a)	2,003
1989	112	1,314	1,426	(a)	(a)	126	(a)	(a)	1,552
1990	121	919	1,040	(a)	(a)	70	(a)	(a)	1,110

See notes and sources at end of table

United States Petroleum Geophysical Exploration
(Crew Months)

(a) Company-contractor data are not available.
(b) Percentages do not equal 100 percent due to unallocated crew months included in total.
(c) Includes 76 magnetometer crew months not allocated to either company or contractor.
(d) Includes 5 other crew months not allocated to either company or contractor.
(e) Includes 18 magnetometer crew months not allocated to either company or contractor.
(f) Includes 3 magnetometer crew months not allocated to either company or contractor.
(g) Total includes government and university activity unallocated to company-contractor totals.

SOURCE: Society of Exploration Geophysicists, Annual Reports.

Section III
Table 5

International Petroleum Geophysical Exploration
(Crew Months)

Year	United States	Canada	Latin America	Total Western Hemisphere	Western Europe	Africa	Middle East	Asia	Total World(e)
1954	7,969	1,652	1,210	10,831	(a)	(a)	(a)	(a)	12,424
1955	8,240	1,599	1,148	10,987	(a)	(a)	(a)	(a)	13,430
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	13,627
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	13,655
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	12,590
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	11,481
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	10,526
1961	5,024	664	995	6,683	1,314	1,472	213	521	10,203
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	9,199
1963	4,174	745	1,153	6,072	1,094	978	233	968	9,345
1964	4,411	673	1,133	6,217	1,035	766	283	909	9,210
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	9,689
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	9,040
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	9,055
1968	3,390	970	1,012	5,372	711	679	296	708	7,766
1969	3,472	960	898	5,330	676	864	460	935	8,265
1970	2,521	806	1,052	4,379	725	802	286	1,009	7,201
1971	2,762	334	1,105	4,201	738	915	254	1,578	7,686
1972	3,140	503	1,146	4,789	692	938	239	957	7,615
1973	3,073	585	1,236	4,894	627	798	294	950	7,563
1974	3,892	487	1,572	5,951	702	835	389	1,008	8,897 (b)
1975	3,687	597 (c)	790 (c)	5,074	679 (c)	676 (c)	306 (c)	440 (c)	7,185 (b)
1976	3,385	421 (c)	559 (c)	4,365	592 (c)	674 (c)	351 (c)	338 (c)	6,353 (b)
1977	3,183	766	480 (d)	4,429	646	806	309	254	6,497 (b)
1978	4,148	782	980	5,910	535	613	330	280	7,668 (b)
1979	4,400	761	485	5,646	647	674	345	372	7,746 (b)
1980	4,962	695	645	6,302	569	688	346	520	8,565 (b)
1981	5,877	584	1,261	7,722	733	973	452	436	10,706 (b)
1982	5,676	527	808	7,011	798	755	480	752	9,821 (b)
1983	4,944	658	703	6,305	744	660	359	700	8,789 (b)
1984	4,698	616	612	5,926	770	658	351	703	8,442 (b)
1985	3,494	899	751	5,144	756	581	347	560	7,388 (b)
1986	2,016	453	676	3,145	703	558	295	636	5,337 (b)
1987	1,561	382	586	2,519	435	346	295	522	4,142 (b)
1988	1,761	448	695	2,904	564	404	355	534	4,768 (b)
1989	1,426	436	587	2,449	599	634	312	495	4,490 (b)
1990	998	228	493	1,719	555	449	335	769	3,899 (b)

(b) Includes crew months allocated to international waters and other areas not specifically identified.

(c) Data from 1978 to 1990 and selected items from 1975 and 1976 are seismic activity only.

(d) Only partial data for Mexico included.

(e) Total is incomplete because figures for all countries are not available.

SOURCE: Society of Exploration Geophysicists, Annual Reports

Historical Record:
Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(b) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	3	7	11	52	129	48	250	73	3,325	2.20
1948	2	2	9	59	241	33	346	72	4,087	1.76
1949	9	4	9	65	172	78	337	87	4,238	2.05
1950	3	10	15	69	283	56	436	97	5,149	1.88
1951	1	1	13	71	345	61	492	86	6,044	1.42
1952	2	2	11	70	361	90	536	85	6,440	1.32
1953	1	6	17	88	283	134	529	112	6,634	1.69
1954	2	3	12	82	308	179	586	99	7,033	1.41
1955	2	5	13	95	329	178	622	115	7,743	1.49
1956	0	2	2	92	333	124	553	96	8,436	1.14
1957	1	1	7	63	339	186	597	72	7,556	0.95
1958	3	2	16	82	229	157	489	103	6,618	1.56
1959	0	4	3	52	255	110	424	59	7,031	0.84
1960	1	3	5	35	283	143	470	44	7,320	0.60
1961	0	1	4	47	246	68	366	52	6,909	0.75
1962	0	1	3	44	264	78	390	48	6,794	0.71
1963	2	1	7	41	341	100	492	51	6,570	0.78
1964	0	3	9	48	248	109	417	60	6,623	0.91
1965	2	3	5	35	268	63	376	45	6,175	0.73
1966	3	1	3	40	336	6	389	47	6,158	0.76
1967	1	4	2	39	278	24	348	46	5,271	0.87
1968	3	5	1	38	210	63	320	47	5,205	0.90
1969	2	3	2	41	245	28	321	48	5,956	0.81
1970	6	0	5	36	199	17	263	47	4,468	1.05
1971	0	0	3	29	183	13	228	32	4,401	0.73
1972	0	1	0	42	232	12	287	43	5,079	0.85
1973	0	2	4	26	251	7	290	32	4,981	0.64
1974	0	1	0	40	293	7	341	41	5,645	0.73
1975	0	2	3	37	368	8	418	42	6,096	0.69
1976	1	2	5	39	391	20	458	47	5,825	0.81
1977	0	3	2	27	406	14	452	32	6,091	0.53
1978	0	1	0	20	378	11	410	21	6,469	0.32
1979	0	0	3	20	432	19	474	23	6,398	0.36
1980	0	0	1	33	576	34	644	34	7,020	0.48
1981	0	0	1	37	602	48	688	38	8,034	0.47

See notes and sources at end of table

Section III
Table 6a

Historical Record: Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(b) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	0	33	595	34	662	33	7,783	0.42
TOTAL	50	86	206	1,767	11,232	2,360	15,701	2,109	221,605	0.95

(a) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42 No. 9 (Sept. 1958), p. 2043.

A Fields..................Over 50 million barrels
B Fields....................25-50 million barrels
C Fields....................10-25 million barrels
D Fields......................1-10 million barrels
E Fields..................Less than 1 million barrels
F Fields..................Abandoned as non-profitable

(b) Includes oil wells, gas wells and dry holes.

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 7

Historical Record: Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A	B	C	D	E	F	Total(a)			
	(SIGNIFICANT)									
1947	5	5	4	30	35	19	98	44	3,325	1.32
1948	3	3	7	33	35	19	100	46	4,087	1.13
1949	8	7	8	34	43	12	112	57	4,238	1.34
1950	4	4	8	28	44	19	107	44	5,149	0.85
1951	10	4	10	41	57	16	138	65	6,044	1.08
1952	10	7	7	44	65	15	148	68	6,440	1.06
1953	3	3	6	40	89	18	159	52	6,634	0.78
1954	4	1	12	51	104	39	211	68	7,033	0.97
1955	2	3	11	33	107	43	199	49	7,743	0.63
1956	2	4	5	52	92	26	181	63	8,436	0.75
1957	9	5	15	70	105	30	234	99	7,556	1.31
1958	3	6	9	55	143	25	241	73	6,618	1.10
1959	4	1	6	51	135	28	225	62	7,031	0.88
1960	6	2	9	63	135	22	237	80	7,320	1.09
1961	4	3	4	35	156	40	242	46	6,909	0.67
1962	3	4	11	61	161	52	292	79	6,794	1.16
1963	4	1	7	38	124	41	215	50	6,570	0.76
1964	4	1	11	37	136	37	226	53	6,623	0.80
1965	1	3	10	38	142	30	224	52	6,175	0.84
1966	1	3	7	36	142	12	201	47	6,158	0.76
1967	4	5	6	26	111	12	164	41	5,271	0.78
1968	1	5	7	27	83	14	137	40	5,205	0.77
1969	3	2	4	35	116	14	174	44	5,956	0.74
1970	4	3	4	25	107	14	157	36	4,468	0.81
1971	1	2	5	43	135	11	197	51	4,401	1.16
1972	3	4	5	49	212	2	275	61	5,079	1.20
1973	1	5	8	55	320	23	412	69	4,981	1.39
1974	1	3	5	58	349	11	427	67	5,645	1.19
1975	2	1	4	66	347	5	425	73	6,096	1.20
1976	2	1	9	61	426	11	510	73	5,826	1.25
1977	0	1	3	53	393	11	461	57	6,091	0.94
1978	1	2	4	49	402	10	468	56	6,469	0.87
1979	0	2	5	28	621	10	666	35	6,398	0.55
1980	0	1	6	44	622	15	688	51	7,020	0.73
1981	1	2	3	51	550	19	626	57	8,034	0.71

See notes and sources at end of table

Historical Record: Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled(b)	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	4	29	531	19	583	33	7,783	0.42
TOTAL	114	109	249	1,569	7,375	744	10,160	2,041	221,606	0.92

(a) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. Data for years 1947-52 are from Lahee's Table IV. American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields	*Over 300 billion cubic feet*
B Fields	*150-300 billion cubic feet*
C Fields	*60-150 billion cubic feet*
D Fields	*6-60 billion cubic feet*
E Fields	*6 billion cubic feet*
F Fields	*Abandoned as non-profitable*

(b) Includes oil wells, gas wells and dry holes.

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 8

Historical Record: Number of U.S. New Field Oil and Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1947	8	12	15	82	164	67	348	117	3,325	3.52
1948	5	5	16	92	276	52	446	118	4,087	2.89
1949	17	11	17	99	215	90	449	144	4,238	3.40
1950	7	14	23	97	327	75	543	141	5,149	2.74
1951	11	5	23	112	402	77	630	151	6,044	2.50
1952	12	9	18	114	426	105	684	153	6,440	2.38
1953	4	9	23	128	372	152	688	164	6,634	2.47
1954	6	4	24	133	412	218	797	167	7,033	2.37
1955	4	8	24	128	436	221	821	164	7,743	2.12
1956	2	6	7	144	425	150	734	159	8,436	1.88
1957	10	6	22	133	444	216	831	171	7,556	2.26
1958	6	8	25	137	372	182	730	176	6,618	2.66
1959	4	5	9	103	390	138	649	121	7,031	1.72
1960	7	5	14	98	418	165	707	124	7,320	1.69
1961	4	4	8	82	402	108	608	98	6,909	1.42
1962	3	5	14	105	425	130	682	127	6,794	1.87
1963	6	2	14	79	465	141	707	101	6,570	1.54
1964	4	4	20	85	384	146	643	113	6,623	1.71
1965	3	6	15	73	410	93	600	97	6,175	1.57
1966	4	4	10	76	478	18	590	94	6,158	1.53
1967	5	9	8	65	389	36	512	87	5,271	1.65
1968	4	10	8	65	293	77	457	87	5,205	1.67
1969	5	5	6	76	361	42	495	92	5,956	1.54
1970	10	3	9	61	306	31	420	83	4,468	1.86
1971	1	2	8	72	318	24	425	83	4,401	1.89
1972	3	5	5	91	444	14	562	104	5,079	2.05
1973	1	7	12	81	571	30	702	101	4,981	2.03
1974	1	4	5	98	642	18	768	108	5,645	1.91
1975	2	3	7	103	715	13	843	115	6,096	1.89
1976	3	3	14	100	817	31	968	120	5,826	2.06
1977	0	4	5	80	799	25	913	89	6,091	1.46
1978	1	3	4	69	780	21	878	77	6,469	1.19
1979	0	2	8	48	1,053	29	1,140	58	6,398	0.91
1980	0	1	7	77	1,198	49	1,332	85	7,020	1.21
1981	1	2	4	88	1,152	67	1,314	95	8,034	1.18

See notes and sources at end of table

Section III
Table 8a

Historical Record: Number of U.S. New Field Oil and Gas Discoveries Proved After Six Years to be of Significant Size

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total(a) Significant Size Oil Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled	Percent of A-D Fields in Total New-Field Wildcats Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total(a)			
1982	0	0	4	62	1,126	53	1,245	66	7,783	0.85
TOTAL	164	195	455	3,336	18,607	3,104	25,861	4,150	221,606	1.87

(a) Differs from year-of-discovery total because of consolidations.

A Fields	*Over 50 million barrels or over 300 billion cubic feet*
B Fields	*25-50 million barrels or 150-300 billion cubic feet*
C Fields	*10-25 million barrels or 60-150 billion cubic feet*
D Fields	*1-10 million barrels or 6-60 billion cubic feet*
E Fields	*Less than 1 million barrels or less than 6 billion cubic feet*
F Fields	*Abandoned as non-profitable*

SOURCE: American Association of Petroleum Geologists, North American Drilling Activity

United States
Estimated Drilling Costs by Well Classification, Onshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						Gas Wells					
1959	25,136	94,331.7	1,232,591.0	3,753	49,037	13.07	4,974	26,688.7	460,307.0	5,366	92,543	17.25
1960	20,933	81,168.8	914,306.8	3,878	43,678	11.26	5,175	28,035.4	487,477.5	5,417	94,199	17.39
1961	20,868	79,736.6	971,144.0	3,821	46,537	12.18	5,588	29,454.2	489,799.2	5,271	87,652	16.63
1962	20,060	83,168.5	1,041,452.5	4,146	51,917	12.52	5,743	30,171.3	511,755.7	5,254	89,109	16.96
1963	20,306	77,410.4	940,225.3	3,812	46,303	12.15	4,689	24,626.5	392,325.1	5,252	83,669	15.93
1964	20,535	76,376.6	898,606.9	3,719	43,760	11.77	4,749	25,991.9	447,248.1	5,473	94,177	17.21
1965	18,370	74,627.6	873,769.0	4,062	47,565	11.71	4,654	25,113.4	418,669.6	5,396	89,959	16.67
1966	15,312	60,104.3	745,319.5	3,925	48,676	12.40	3,914	23,217.3	446,177.6	5,932	113,995	19.22
1967	14,196	53,676.0	692,118.9	3,781	48,755	12.89	3,390	19,821.8	401,857.7	5,847	118,542	20.27
1968	13,010	51,828.6	699,182.3	3,984	53,742	13.49	3,145	18,536.1	387,216.3	5,894	123,121	20.89
1969	12,330	52,726.3	790,280.2	4,276	64,094	14.99	3,705	21,237.3	439,917.4	5,732	118,736	20.71
1970	12,014	51,734.0	806,429.0	4,306	67,124	15.59	3,651	21,044.0	478,705.0	5,764	131,116	22.75
1971	11,096	45,672.2	731,152.7	4,116	65,893	16.01	3,494	20,086.7	471,309.2	5,749	134,891	23.46
1972	10,421	45,126.0	792,435.2	4,330	76,042	17.56	4,856	26,424.0	626,559.7	5,442	129,028	23.71
1973	9,407	41,980.9	825,029.7	4,463	87,704	19.65	6,243	34,368.7	843,960.4	5,505	135,185	24.56
1974	12,820	49,662.3	1,270,731.1	3,874	99,121	25.59	6,540	35,552.2	1,114,933.6	5,436	170,479	31.36
1975	15,993	63,641.3	2,003,955.3	3,979	125,302	31.49	7,383	40,613.6	1,667,555.1	5,501	225,864	41.06
1976	16,603	65,636.2	2,227,303.1	3,953	134,151	33.93	8,631	45,714.7	2,011,603.6	5,297	233,067	44.00
1977	17,789	72,090.0	2,654,029.9	4,053	149,195	36.82	11,086	58,791.0	2,924,519.8	5,303	263,803	49.74
1978	17,492	71,596.0	3,157,053.7	4,093	180,486	44.10	12,887	68,610.9	3,996,244.5	5,324	310,099	58.25
1979	18,894	77,021.0	3,983,757.0	4,076	210,848	51.72	13,626	72,733.1	5,010,426.4	5,338	367,711	68.89
1980	28,236	114,228.1	6,924,130.2	4,045	245,223	60.62	14,781	81,400.8	6,720,984.8	5,507	454,704	82.57
1981	38,310	158,514.8	11,948,475.5	4,138	311,889	75.38	17,018	95,089.6	10,125,963.9	5,588	595,015	106.49
1982	35,379	140,035.3	10,895,210.4	3,958	307,957	77.80	16,610	96,211.9	12,572,614.1	5,792	756,930	130.68
1983	33,026	126,511.5	8,004,608.8	3,831	242,373	63.27	12,626	69,362.9	6,642,729.5	5,494	526,115	95.77
1984	38,490	149,635.8	8,891,781.7	3,888	231,015	59.42	14,611	78,856.6	5,986,152.1	5,397	409,702	75.91
1985	33,431	133,489.2	7,875,373.3	3,993	235,571	59.00	13,547	72,431.8	5,747,252.8	5,347	424,245	79.35
1986	17,865	72,708.4	4,143,102.8	4,070	231,912	56.98	7,144	39,023.8	2,902,637.2	5,462	406,304	74.38
1987	15,102	62,430.3	3,073,405.2	4,134	203,510	49.23	7,113	38,125.7	2,338,144.9	5,360	328,714	61.33
1988	12,251	53,921.9	2,947,465.4	4,401	240,590	54.66	7,628	40,358.7	2,907,354.0	5,291	381,142	72.04
1989	9,707	41,218.5	2,302,655.0	4,246	237,216	55.86	8,607	44,281.7	3,346,522.3	5,145	388,814	75.57
1990	11,336	52,078.2	3,292,231.4	4,594	290,423	63.22	9,265	47,121.7	3,670,117.6	5,086	396,127	77.89

–See notes and sources at end of table

United States
Estimated Drilling Costs by Well Classification, Onshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Year	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes							Onshore Wells Drilled					
							1953(a)	49,197	198,056.0	2,447,219.3	4,026	49,743	12.36
							1955(a)	55,517	221,197.2	2,439,924.0	3,984	43,949	11.03
							1956(a)	56,646	227,580.3	2,669,624.0	4,018	47,128	11.73
1959	18,977	79,735.0	775,839.0	4,202	40,883	9.73		49,087	200,755.5	2,468,737.0	4,090	50,293	12.30
1960	17,427	71,568.4	716,918.5	4,107	41,138	10.02		43,595	180,772.6	2,216,900.0	4,147	50,852	12.26
1961	16,926	71,394.0	706,003.7	4,218	41,711	9.89		43,382	180,584.7	2,166,926.9	4,163	49,950	12.00
1962	16,381	72,462.6	751,889.5	4,424	45,900	10.38		43,184	185,802.4	2,305,097.8	4,303	53,379	12.41
1963	16,072	71,272.9	679,103.1	4,435	42,254	9.53		41,067	173,309.8	2,011,653.4	4,220	48,985	11.61
1964	17,207	76,197.6	723,760.5	4,428	42,062	9.50		42,491	178,566.2	2,069,615.5	4,202	48,707	11.59
1965	15,535	71,075.5	681,175.3	4,575	43,848	9.58		38,559	167,816.5	1,973,613.9	4,352	51,184	11.76
1966	14,168	62,730.4	638,085.6	4,428	45,037	10.17		33,394	146,051.9	1,829,582.8	4,374	54,788	12.53
1967	12,587	57,590.3	591,049.8	4,575	46,957	10.26		30,173	131,088.1	1,685,026.5	4,345	55,846	12.85
1968	12,099	60,145.4	665,359.2	4,971	54,993	11.06		28,254	130,510.1	1,741,757.7	4,619	61,646	13.35
1969	12,255	63,091.7	708,336.3	5,148	57,800	11.23		28,290	137,055.3	1,944,533.9	4,845	68,736	14.19
1970	10,454	53,874.0	695,037.0	5,153	66,485	12.90		26,119	126,652.0	1,980,171.0	4,849	75,813	15.63
1971	9,566	49,877.6	646,412.5	5,214	67,574	12.96		24,156	115,636.6	1,848,874.4	4,787	76,539	15.99
1972	10,173	53,984.4	762,721.5	5,307	74,975	14.13		25,450	125,534.4	2,181,716.4	4,933	95,726	17.38
1973	9,713	51,957.0	827,228.3	5,349	85,167	15.92		25,356	128,306.7	2,496,218.3	5,060	98,447	19.46
1974	11,291	58,327.5	1,301,354.0	5,166	115,256	22.31		30,651	143,542.0	3,687,018.7	4,683	120,290	25.69
1975	12,556	63,604.0	1,725,506.8	5,066	137,425	27.13		35,932	167,859.0	5,397,017.2	4,672	150,201	32.15
1976	12,679	63,250.0	1,747,814.4	4,989	137,851	27.63		37,913	174,600.9	5,966,721.1	4,605	157,907	34.29
1977	13,734	70,293.6	2,321,990.2	5,118	169,069	33.03		42,609	201,174.6	7,900,540.0	4,721	185,420	39.27
1978	15,079	78,655.3	3,330,509.1	5,216	220,871	42.34		45,458	218,862.2	10,483,807.4	4,815	230,626	47.90
1979	14,743	75,365.5	3,877,721.7	5,112	263,021	51.45		47,263	225,119.6	12,871,899.2	4,763	272,346	57.18
1980	17,722	87,898.7	5,308,941.9	4,960	299,568	60.40		60,739	283,527.7	18,954,056.8	4,668	312,057	66.85
1981	24,012	120,773.3	9 040,265.1	5,030	376,489	74.85		79,340	374,377.6	31,114,704.4	4,719	392,169	83.11
1982	23,199	111,833.9	9,806,473.8	4,821	422,711	87.69		75,188	348,081.1	33,274,298.3	4,629	442,548	95.59
1983	20,614	92,519.6	5,496,480.3	4.488	266,638	59.41		66,266	288,393.9	20,143,818.7	4,352	303,984	69.85
1984	22,688	107,837.2	5,304,338.9	4,753	233,795	49.19		75,789	336,329.6	20,182,272.7	4 438	266,296	60.01
1985	19,596	95,753.4	4,994,684.7	4,886	254,883	52.16		66,574	301,674.4	18,617,310.9	4,531	279,648	61.71
1986	11,266	55,149.6	2,910,348.2	4,895	258,330	52.77		36,275	166,881.9	9,956,088.3	4,600	274,461	59.66
1987	10,117	49,455.4	1,773,914.1	4,888	175,340	35.87		32,332	150,011.3	7,185,464.1	4,640	222,240	47.90
1988	8,996	46,600.7	2,000,075.6	5,180	222,329	42.92		28,875	140,881.3	7,854,895.0	4,879	272,031	55.76
1989	7,633	38,252.9	1,635,035.6	5,012	214,206	42.74		25,947	123,753.0	7,284,213.0	4,769	280,734	58.86
1990	7,208	37,621.2	1,784,334.0	5,219	247,549	47.43		27,809	136,821.0	8,746,683.0	4,920	314,527	63.93

(a) Data pertaining to well classification not available.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual

United States
Estimated Drilling Costs by Well Classification, Offshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						Gas Wells					
1959	277	2,599.6	88,835.0	9,385	320,704	34.17	75	896.7	48,588.0	11,956	647,840	54.19
1960	301	2,865.0	98,197.1	9,518	326,236	34.27	87	1,042.9	52,700.8	11,987	605,756	50.53
1961	336	3,187.5	115,617.3	9,487	344,099	36.27	86	990.2	47,654.8	11,514	554,126	48.13
1962	342	3,326.0	119,019.6	9,725	348,011	35.78	115	1,260.5	57,016.1	10,961	495,792	45.23
1963	372	3,689.4	130,913.0	9,918	351,917	35.48	90	1,051.2	49,100.6	11,680	545,562	46.71
1964	477	4,612.2	164,388.0	9,669	344,629	35.64	125	1,502.0	63,316.0	12,016	506,528	42.15
1965	487	4,919.9	193,026.3	10,102	396,358	39.23	118	1,379.7	67,430.4	11,692	571,444	48.87
1966	544	5,449.4	240,434.0	10,017	441,974	44.12	146	1,756.8	97,073.9	12,033	664,890	55.26
1967	739	6,258.3	303,250.0	8,469	410,352	48.46	168	1,939.8	99,803.2	11,546	594,067	51.45
1968	757	6,627.4	390,146.0	8,755	515,384	58.87	179	1,995.7	106,519.8	11,149	595,083	53.37
1969	585	5,208.2	320,848.3	8,903	548,459	61.60	222	2,457.8	166,088.0	11,071	748,144	67.58
1970	533	4,683.0	281,628.0	8,786	528,383	60.14	193	2,049.0	138,878.0	10,617	719,575	67.78
1971	309	2,913.0	163,352.3	9,427	528,648	56.08	185	2,035.1	141,544.6	11,001	765,106	69.55
1972	332	3,273.5	213,035.8	9,860	641,674	65.08	230	2,460.6	175,825.9	10,698	764,460	71.46
1973	296	2,686.2	181,945.6	9,075	614,681	67.73	193	1,968.2	153,971.2	10,198	797,778	78.23
1974	253	2,102.9	169,594.7	8,312	670,335	80.65	155	1,578.8	151,606.7	10,186	978,108	96.03
1975	283	2,426.5	252,551.7	8,574	892,409	104.08	271	2,762.3	337,855.3	10,193	1,246,699	122.31
1976	275	2,621.0	322,349.5	9,531	1,172,180	122.99	273	2,651.1	395,815.0	9,711	1,449,872	149.30
1977	288	2,570.4	418,724.6	8,925	1,453,905	162.90	393	3,722.3	674,579.0	9,472	1,716,486	181.23
1978	298	2,814.7	542,971.4	9,445	1,822,052	192.91	419	4,208.6	982,577.3	10,044	2,345,053	233.47
1979	349	3,240.0	694,803.4	9,284	1,990,841	214.45	453	4,606.7	1,227,705.6	10,169	2,710,167	266.50
1980	317	2,838.0	844,306.7	8,953	2,663,428	297.50	444	4,418.8	1,445,737.8	9,952	3,256,166	327.18
1981	415	3,467.3	1,074,328.8	8,355	2,588,744	309.85	515	5,168.0	2,122,169.8	10,035	4,120,718	410.64
1982	486	4,269.2	1,563,370.0	8,784	3,216,811	366.20	442	4,591.6	2,165,054.2	10,388	4,898,313	471.53
1983	459	4,312.4	1,499,152.3	9,395	3,266,127	347.64	293	3,124.5	1,213,032.8	10,664	4,140,044	388.23
1984	486	4,381.8	1,322,458.1	9,016	2,721,107	301.81	372	3,787.6	1,352,636.1	10,182	3,636,119	357.12
1985	369	3,400.2	1,265,696.9	9,215	3,430,073	372.24	307	3,274.7	1,299,888.9	10,667	4,234,166	396.95
1986	333	3,138.9	1,040,990.1	9,426	3,126,096	331.64	207	2,300.1	941,245.4	11,112	4,547,079	409.22
1987	224	2,171.7	696,024.5	9,695	3,107,252	320.50	142	1,548.4	421,324.9	10,904	2,967,077	272.10
1988	183	1,859.4	526,695.9	10,161	2,878,120	283.26	192	2,163.7	692,150.8	11,269	3,604,952	319.89
1989	158	1,677.0	481,970.0	10,614	3,050,443	287.40	223	2,256.7	695,766.7	10,120	3,120,030	308.31
1990	136	1,289.6	399,457.1	9,482	2,937,185	309.75	209	2,089.0	794,796.4	9,995	3,802.9	380.47

See notes and sources at end of table

United States
Estimated Drilling Costs by Well Classification, Offshore

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes						**Offshore Wells Drilled**					
1953(a)							82 (b)	783.0	24,499.0	9,549	298,768	31.29
1955(a)							414 (c)	3,959.8	160,219.0	9,565	387,002	40.46
1956(a)							479 (d)	4,593.4	198,786.0	9,590	415,002	43.28
1959	124	1,260.6	44,936.0	10,166	362,387	35.65	476	4,756.9	182,359.0	9,993	383,107	38.34
1960	150	1,700.4	56,620.4	11,336	377,469	33.30	538	5,608.4	207,518.3	10,425	385,722	37.00
1961	184	1,906.6	67,963.7	10,362	369,368	35.65	606	6,084.4	231,235.8	10,040	381,577	38.00
1962	303	3,168.2	95,541.9	10,456	315,320	30.16	760	7,754.8	271,577.6	10,204	357,339	35.02
1963	324	3,429.7	111,196.9	10,585	343,200	32.42	786	8,170.2	291,210.5	10,395	370,497	35.64
1964	393	4,065.2	130,047.6	10,344	330,910	31.99	995	10,179.3	357,751.7	10,230	359,549	35.15
1965	432	4,588.9	167,366.0	10,622	387,421	36.47	1,037	10,888.6	427,822.6	10,500	412,558	39.29
1966	437	4,664.1	193,649.6	10,673	443,134	41.52	1,127	11,870.3	531,157.5	10,533	471,302	44.75
1967	458	4,719.5	211,098.7	10,305	460,914	44.73	1,365	12,917.7	614,151.9	9,464	449,928	47.54
1968	386	3,995.5	170,936.8	10,351	442,841	42.78	1,322	12,618.6	667,602.7	9,545	504,994	52.91
1969	384	3,983.9	179,201.1	10,375	466,670	44.98	1,191	11,649.9	666,137.4	9,782	559,309	57.18
1970	332	3,506.0	178,005.0	10,560	536,160	50.77	1,058	10,238.0	598,511.0	9,677	565,700	58.46
1971	390	4,059.3	217,720.1	10,408	558,257	53.63	884	9,007.4	522,617.1	10,189	591,196	58.02
1972	431	4,267.0	243,587.6	9,900	565,168	57.09	993	10,001.1	632,449.4	10,072	636,908	63.24
1973	399	3,699.7	242,397.1	9,272	607,512	65.52	888	8,354.1	578,318.9	9,408	651,254	69.23
1974	422	3,720.5	358,768.7	8,816	850,163	96.43	830	7,402.3	679,970.1	8,918	819,241	91.86
1975	474	4,594	583,789.7	9,693	1,231,624	127.07	1,028	9,783.2	1,174,196.7	9,517	1,142,215	120.02
1976	480	4,545	756,794.7	9,469	1,576,656	166.50	1,028	9,817.2	1,474,959.2	9,550	1,434,785	150.24
1977	536	5,227	962,609.5	9,752	1,795,913	184.15	1,217	11,519.9	2,055,913.1	9,466	1,689,329	178.47
1978	480	4,733	1,051,734.0	9,861	2,191,113	222.19	1,197	11,756.7	2,577,282.7	9,822	2,153,118	219.22
1979	458	4,546	1,284,522.2	9,925	2,804,634	282.58	1,260	12,392.5	3,207,031.2	9,835	2,545,263	258.79
1980	511	5,246	1,556,254.3	10,267	3,045,507	296.63	1,272	12,503.3	3,846,298.9	9,830	3,023,820	307.62
1981	546	5,788	2,354,253.5	10,600	4,311,820	406.76	1,476	14,422.5	5,550,752.1	9,771	3,760,672	384.87
1982	536	5,676	2,425,396.1	10,590	4,524,993	427.28	1,464	14,537.1	6,153,820.3	9,930	4,203,429	423.32
1983	518	5,395	2,248,538.9	10,415	4,340,809	416.78	1,270	12,831.9	4,960,724.0	10,104	3,906,082	386.59
1984	560	6,090	2,348,852.4	10,817	4,172,029	385.70	1,421	14,259.2	5,023,946.6	10,035	3,535,501	352.33
1985	571	6,141	2,513,705.9	10,755	4,402,287	409.33	1,247	12,815.9	5,079,291.7	10,277	4,073,209	396.33
1986	358	3,969	1,614,079.2	11,086	4,508,601	406.70	898	9,407.7	3,596,314.6	10,476	4,004,805	382.27
1987	343	3,625	935,935.9	10,569	2,728,676	258.18	709	7,345.3	2,053,285.3	10,360	2,896,030	279.54
1988	491	5,311	1,475,780.4	10,818	3,005,663	277.85	866	9,334.4	2,694,627.1	10,779	3,111,579	288.68
1989	365	3,788	1,207,389.4	10,377	3,307,916	318.77	746	7,721.4	2,385,126.1	10,350	3,197,220	308.90
1990	359	3,585	996,537.5	9,987	2,775,870	277.97	704	6,963.8	2,190,791.0	9,892	3,111,919	314.60

(a) Data pertaining to well classification not available.
(b) Louisiana only.
(c) Includes Louisiana and Texas.
(d) Includes Louisiana, Texas and California.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual.

United States
Estimated Drilling Costs, all Wells by Classification

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Oil Wells						Gas Wells					
1959	25,413	96,931.3	1,321,426.0	3,814	51,998	13.63	5,049	27,585.5	508,895.0	5,464	100,791	18.45
1960	21,294	84,033.9	1,110,701.1	3,946	52,160	13.22	5,262	29,078.3	540,179.3	5,526	102,657	18.58
1961	21,204	82,924.1	1,086,761.4	3,911	51,253	13.11	5,674	30,444.4	537,433.9	5,366	94,719	17.65
1962	21,402	86,494.5	1,160,472.1	4,041	54,223	13.42	5,858	31,431.8	568,771.8	5,366	97,093	18.10
1963	20,678	81,099.8	1,071,138.2	3,922	51,801	13.21	4,779	25,677.7	441,425.7	5,373	92,368	17.19
1964	21,012	80,988.9	1,062,994.9	3,854	50,590	13.13	4,874	27,493.8	510,564.1	5,641	104,753	18.57
1965	18,857	76,547.5	1,066,795.3	4,059	56,573	13.94	4,772	26,493.2	486,100.0	5,552	101,865	18.35
1966	15,856	65,553.6	985,753.6	4,134	62,169	15.04	4,060	24,974.1	543,251.6	6,151	133,806	21.75
1967	14,935	59,934.3	995,368.9	4,013	66,647	16.61	3,558	21,761.6	501,660.9	6,116	140,995	23.05
1968	13,767	58,456.1	1,089,328.4	4,246	79,126	18.63	3,324	20,531.8	493,736.1	6,177	148,537	24.05
1969	12,915	57,934.4	1,117,128.5	4,486	86,499	19.28	3,927	23,695.2	606,005.4	6,034	154,318	25.58
1970	12,547	56,417.0	1,088,057.0	4,496	86,718	19.29	3,844	23,093.0	617,583.0	6,008	160,662	26.74
1971	11,405	48,585.2	894,505.1	4,260	78,431	18.41	3,679	22,121.8	612,853.8	6,013	166,582	27.70
1972	10,753	48,399.5	1,005,471.1	4,501	93,506	20.77	5,086	28,884.6	802,385.5	5,679	157,764	27.78
1973	9,705	44,667.1	1,006,975.3	4,602	103,758	22.54	6,427	36,336.9	997,931.6	5,654	155,272	27.46
1974	13,073	51,765.2	1,440,325.8	3,960	110,176	27.82	6,695	37,131.1	1,266,540.3	5,546	189,177	34.11
1975	16,276	66,067.8	2,256,507.0	4,059	138,640	34.15	7,654	43,375.9	2,005,410.4	5,667	262,008	46.23
1976	16,878	68,257.2	2,549,652.6	4,044	151,064	37.35	8,904	48,365.8	2,407,418.6	5,432	270,375	49.78
1977	18,077	74,660.3	3,072,754.5	4,130	169,981	41.16	11,479	62,513.2	3,599,098.8	5,446	313,538	57.57
1978	17,790	74,410.8	3,700,025.1	4,182	207,983	49.73	13,306	72,819.5	4,978,821.9	5,473	374,179	68.37
1979	19,243	80,261.0	4,678,560.4	4,170	243,130	58.30	14,079	77,339.9	6,238,126.0	5,493	443,080	80.66
1980	28,553	117,066.2	7,768,436.9	4,099	272,070	66.37	15,225	85,819.6	8,166,722.6	5,637	536,402	95.16
1981	38,725	161,982.1	13,022,804.3	4,183	336,289	80.40	17,533	100,257.5	12,248,133.7	5,718	698,576	122.17
1982	35,865	144,304.5	12,458,580.5	4,024	347,374	86.33	17,052	100,803.5	14,737,668.3	5,912	864,278	146.20
1983	33,485	130,823.9	9,503,761.1	3,907	283,821	72.64	12,919	72,487.3	7,855,762.3	5,611	608,078	108.37
1984	38,976	154,017.6	10,214,239.8	3,952	262,065	66.32	14,983	82,644.2	7,338,788.2	5,516	489,808	88.80
1985	33,800	136,889.5	9,141,070.2	4,050	270,446	66.78	13,854	75,706.5	7,047,141.7	5,465	508,672	93.09
1986	18,198	75,847.3	5,184,092.9	4,168	284,872	68.35	7,351	41,324.0	3,843,882.6	5,622	522,906	93.02
1987	15,326	64,602.0	3,769,429.7	4,215	245,950	58.35	7,255	39,674.1	2,759,469.8	5,469	380,354	69.55
1988	12,434	55,781.3	3,474,161.3	4,486	279,408	62.28	7,820	42,522.4	3,599,504.8	5,438	460,295	84.65
1989	9,865	42,895.4	2,784,625.0	4,348	282,273	64.92	8,830	46,538.3	4,042,289.1	5,270	457,790	86.86
1990	11,472	53,367.7	3,691,688.4	4,652	321,800	69.17	9474	49,210.6	4,464,914.0	5,194	471,281	90.73

See notes and sources at end of table

United States
Estimated Drilling Costs, all Wells by Classification

Year	Total Wells	Total Footage (Thous)	Total Costs (Thous	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)	Total Wells	Footage (Thous)	Total Costs (Thous)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
	Dry Holes						Total Wells Drilled					
1953(a)							49,279	198,839.0	2,471,718.3	4,035	50,158	12.43
1955(a)							55,931	225,157.0	2,600,143.0	4,026	46,488	11.55
1956(a)							57,125	232,173.7	2,868,410.0	4,064	50,213	12.35
1959	19,101	80,995.6	820,775.0	4,240	42,970	10.13	49,563	205,512.4	2,651,096.0	4,146	53,489	12.90
1960	17,577	73,268.8	773,538.9	4,168	44,009	10.56	44,133	186,380.9	2,424,418.3	4,223	54,934	13.01
1961	17,110	73,300.6	773,967.3	4,284	45,235	10.56	43,988	186,669.1	2,398,162.6	4,244	54,519	12.85
1962	16,684	75,630.9	847,431.5	4,533	50,793	11.20	43,944	193,557.2	2,576,675.4	4,405	58,635	13.31
1963	16,396	74,702.6	790,300.1	4,556	48,201	10.58	41,853	181,480.1	2,302,864.0	4,336	55,023	12.69
1964	17,600	80,262.7	853,808.2	4,560	48,512	10.64	43,486	188,745.4	2,427,367.2	4,340	55,820	12.86
1965	15,967	75,664.4	848,541.2	4,739	53,143	11.21	39,596	178,705.1	2,401,436.5	4,513	60,648	13.44
1966	14,605	67,394.5	831,735.2	4,614	56,949	12.34	34,521	157,922.3	2,360,740.3	4,575	68,386	14.95
1967	13,045	62,309.9	802,148.5	4,777	61,491	12.87	31,538	144,005.8	2,299,178.4	4,566	72,902	15.97
1968	12,485	64,140.9	826,295.9	5,137	66,183	12.88	29,576	143,128.8	2,409,360.4	4,839	81,463	16.83
1969	12,639	67,075.6	887,537.4	5,307	70,222	13.23	29,481	148,705.2	2,610,671.3	5,044	88,554	17.56
1970	10,786	57,380.0	873,042.0	5,320	80,942	15.21	27,177	136,890.0	2,578,682.0	5,037	94,885	18.84
1971	9,956	53,936.9	864,132.7	5,418	86,795	16.02	25,040	124,644.0	2,371,491.5	4,978	94,708	19.03
1972	10,604	58,251.4	1,006,309.2	5,493	94,899	17.28	26,443	135,535.5	2,814,165.8	5,126	106,424	20.76
1973	10,112	55,656.7	1,069,625.4	5,504	105,778	19.22	26,244	136,660.8	3,074,532.3	5,207	117,152	22.50
1974	11,713	62,048.0	1,660,122.7	5,297	141,733	26.76	31,481	150,944.3	4,366,988.8	4,795	138,718	28.93
1975	13,030	68,198.4	2,309,296.5	5,234	177,229	33.86	36,960	177,642.1	6,571,213.9	4,806	177,793	36.99
1976	13,159	67,795.2	2,504,609.1	5,152	190,334	36.94	38,941	184,418.1	7,461,680.3	4,736	191,615	40.46
1977	14,270	75,520.8	3,284,599.7	5,292	230,175	43.49	43,826	212,694.4	9,956,453.0	4,853	227,181	46.81
1978	15,559	83,388.7	4,382,243.2	5,359	281,653	52.56	46,655	230,618.9	13,061,090.0	4,943	279,950	56.63
1979	15,201	79,911.3	5,162,244.0	5,256	339,598	64.61	48,523	237,512.1	16,078,930.4	4,895	331,367	67.70
1980	18,233	93,145.1	6,865,196.2	5,108	376,525	73.71	62,011	296,031.0	22,800,355.7	4,774	367,682	77.02
1981	24,558	126,560.5	11,394,518.6	5,154	463,984	90.03	80,816	388,800.1	36,665,456.5	4,811	453,691	94.30
1982	23,735	117,510.1	12,231,869.9	4,951	515,352	104.09	76,652	362,618.2	39,428,118.6	4,731	514,378	108.73
1983	21,132	97,914.6	7,745,019.2	4,633	366,507	79.11	67,536	301,225.8	25,104,542.6	4,460	371,721	83.34
1984	23,251	113,927.0	7,653,191.4	4,900	329,155	67.18	77,210	350,588.7	25,206,219.3	4,541	326,463	71.90
1985	20,167	101,894.4	7,508,390.7	5,053	372,311	73.68	67,821	314,490.4	23,696,602.5	4,637	349,399	75.35
1986	11,624	59,118.3	4,524,427.4	5,086	389,232	76.53	37,173	176,289.6	13,552,402.8	4,742	364,577	76.88
1987	10,460	53,080.5	2,709,850.0	5,075	259,068	51.05	33,041	157,356.6	9,238,749.5	4,762	279,615	58.71
1988	9,487	51,912.1	3,475,856.0	5,472	366,381	66.96	29,741	150,217.8	10,549,522.1	5,051	354,713	70.23
1989	7,998	42,040.6	2,842,425.0	5,256	355,392	67.61	26,693	131,474.4	9,669,339.1	4,925	362,243	73.55
1990	7,567	41,206.4	2,780,871.5	5,446	367,500	67.49	28,513	143,784.8	10,937,473.9	5,043	383,596	76.07

(a) Data pertaining to well classification not available.

SOURCE: API, Joint Association Survey on Drilling Costs, Annual

International Well Completions

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	29,467	27,300	28,755	27,602	32,893	39,097	41,455	46,479	48,513	51,263	62,462	80,537	88,101	75,738	84,983
Canada	3,108	3,175	3,548	4,621	4,227	4,242	6,221	6,197	7,170	7,489	8,813	6,927	6,464	7,095	8,765
Mexico	502	516	431	422	408	353	336	307	406	333	434	412	336	65	268
Total North America	33,077	30,991	32,734	32,645	37,528	44	48,012	52,938	56,089	59,085	72	87,876	94,901	82,898	94,016
Argentina	579	595	623	597	606	552	646	647	865	773	953	904	822	130	126
Brazil	177	175	179	128	176	228	288	245	256	385	463	668	1,045	1,145	963
Ecuador	37	81	59	58	37	15	19	16	16	40	23	27	27	10	25
Peru	135	121	117	89	152	161	150	160	157	451	540	426	149	23	150
Trinidad-Tobago	135	220	196	212	200	189	192	217	215	188	218	243	200	11	151
Venezuela	589	464	371	427	416	284	337	446	637	1,030	1,275	1,491	1,500	19	406
Other	177	189	158	127	140	128	156	194	183	289	326	380	357	49	241
Total Latin America(c)	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156	3,798	4,139	4,100	1,387	2,062
Total Western Hemisphere(c)	34,906	32,836	34,437	34,283	39,255	45,249	49,800	54,908	58,418	62,241	75,507	92,015	99,001	84,285	96,078
Total North Sea	88	100	107	113	176	207	210	166	134	227	273	283	283	402	141
Other European	274	318	352	287	313	369	345	410	525	448	758	810	777	665	648
Total Europe(c)	362	418	459	400	489	576	555	576	659	675	1,031	1,093	1,060	1,067	789
Algeria	115	109	80	83	79	107	54	130	60	267	249	159	0	32	NA
Gabon	26	36	36	44	59	49	44	31	35	38	40	61	56	62	43
Libya	250	87	77	74	79	66	64	109	177	184	192	157	110	--	99
Nigeria	168	207	258	239	249	192	143	118	104	116	132	202	144	124	89
Other	150	214	194	157	162	191	130	208	208	236	257	369	461	475	450
Total Africa(c)	709	653	645	597	628	605	435	596	584	841	870	948	771	693	NA
United Arab Emirates	7	28	55	57	84	68	113	98	90	96	138	161	193	34	143
Iran	44	104	61	81	100	140	182	185	180	0	-	-	-	--	--
Iraq	6	17	0	16	2	0	2	NA	NA	66	67	-	-	--	--
Kuwait(b)	13	8	2	0	0	0	8	0	0	12	36	5	8	--	11
Saudi Arabia(b)	43	56	178	323	300	210	163	180	145	144	223	229	25	--	--
Neutral Zone(b)	23	12	9	13	19	14	15	4	0	3	4	5	6	--	--
Qatar	7	10	8	9	2	7	4	2	2	46	53	51	52	--	8
Oman	27	0	56	49	40	55	42	51	61	102	89	110	159	38	46
Other	72	58	56	61	83	102	75	124	107	143	207	210	128	39	62
Total Middle East(c)	242	293	425	609	630	596	604	644	585	621	817	771	571	111	270
Indonesia	84	422	312	501	630	588	513	409	536	473	635	727	323	969	756
Other(d)	162	157	223	197	180	157	229	295	440	2,492	3,443	3,539	592	384	1,219
Total Australasia(c)	246	579	535	698	810	745	742	704	976	2,965	4,078	4,266	915	1,353	1,975
Total Eastern Hemisphere(c)	1,559	1,943	2,064	2,304	2,557	2,522	2,336	2,520	2,804	5,102	6,796	7,078	3,317	3,224	NA
TOTAL WORLD(c)	36,465	34,779	36,501	36,587	41,812	47,771	52,136	57,428	61,222	67,343	82,303	99,093	102,318	87,509	NA

See notes and sources at end of table

Section III
Table 12a

International Well Completions

Area/Country	1985	1986	1987	1988	1989
United States	70,806	39,015	35,232	34,015	28,799
Canada	12,564	5,991	7,078	7,849	5,513
Mexico	297	247	103	132	82
Total North America	83,667	45,253	42,413	41,996	34,394
Argentina	1,024	820	416	781	801
Brazil	1,074	1,086	950	793	591
Ecuador	22	33	30	42	29
Peru	160	148	152	118	86
Trinidad-Tobago	197	162	142	142	85
Venezuela	361	254	177	235	181
Other	299	394	336	455	370
Total Latin America(c)	3,137	2,897	2,203	2,566	2,143
Total Western Hemisphere(c)	86,706	48,150	43,616	44,562	36,537
Total North Sea	462	435	350	NA	NA
Other European	817	744	570	NA	NA
Total Europe(c)	1,279	1,179	920	NA	743
Algeria	NA	NA	45	35	78
Gabon	46	21	31	43	52
Libya	NA	41	41	74	87
Nigeria	62	56	72	69	91
Other	401	337	314	306	253
Total Africa(c)	NA	NA	503	527	561
United Arab Emirates	NA	111	NA	8	52
Iran	NA	58	NA	NA	NA
Iraq	NA	40	89	106	NA
Kuwait(b)	NA	59	23	1	10
Saudi Arabia(b)	NA	33	NA	NA	47
Neutral Zone(b)	NA	0	0	0	NA
Qatar	NA	0	NA	NA	11
Oman	NA	210	NA	NA	NA
Other	NA	141	28	4	258
Total Middle East(c)	NA	652	140	119	378
Indonesia	658	647	586	NA	599
Other(d)	6,684	6,234	6,541	6,560	103
Total Australasia(c)	7,340	6,881	7,250	6,560	702
Total Eastern Hemisphere(c)	NA	NA	8,813	7,733	2,648
TOTAL WORLD(c)	NA	NA	52,429	52,295	39,185

See notes and sources at end of table

International Well Completions

(a) Data for all countries is not available.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis.
(c) Totals reflect data for countries not individually listed.
(d) Includes 5555 wells in China in 1985, 5,525 in 1986, 5,721 in 1987, 5,835 in 1988.
No data was reported for China in 1989.
NA Not Available.

SOURCE: United States: American Association of Petroleum Geologists and American Petroleum Institute
Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991

International Exploratory Well Completions(a)

Area/Country	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	7,693	6,922	7,539	7,466	8,619	9,214	9,234	9,961	10,677	10,484	11,916	15,168	16,482	13,845	15,138
Canada	1,537	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925	3,857	3,074	2,346	2,041	2,863
Mexico	130	129	143	104	98	87	79	79	83	NA	85	63	65	65	44
Total North America	9,360	8,585	9,315	9,789	10,452	10,950	11,794	12,841	13,904	NA	15,858	18,305	18,893	15,951	18,045
Argentina	113	157	110	139	117	78	83	143	81	NA	110	127	107	130	136
Brazil	100	87	80	78	86	87	105	155	89	NA	166	245	328	262	243
Ecuador	20	15	20	8	5	3	3	5	3	NA	0	3	5	10	3
Peru	28	21	25	31	43	43	36	37	28	NA	13	17	12	23	29
Trinidad-Tobago	23	35	23	15	13	14	23	17	8	NA	51	16	23	11	4
Venezuela	90	44	64	63	76	35	45	48	60	NA	69	351	250	19	18
Other	70	60	77	50	65	61	67	56	60	NA	NA	211	150	49	66
Total Latin America	444	419	399	384	405	321	362	406	329	NA	409	970	879	504	499
Total Western Hemisphere	9,804	9,004	9,714	10,173	10,857	11,271	12,156	13,247	14,233	NA	16,267	19,275	19,772	16,455	18,544
Total North Sea	66	53	51	70	92	124	109	21	38	168	NA	135	201	220	79
Other European	93	146	159	147	151	172	163	231	259	157	NA	372	398	308	317
Total Europe	159	199	210	217	243	296	272	252	297	325	NA	507	599	528	396
Algeria	37	25	10	13	9	17	11	11	3	3	2	1	1	2	3
Gabon	13	11	17	15	13	23	19	19	20	22	15	23	16	11	18
Libya	51	41	34	25	32	36	22	33	41	30	35	43	34	--	51
Nigeria	31	55	61	45	51	33	21	24	35	22	31	26	30	24	12
Other	131	125	101	80	86	91	89	117	102	133	124	191	216	167	124
Total Africa	263	257	223	178	191	200	162	204	201	204	207	284	297	204	208
United Arab Emirates	7	10	22	8	3	0	15	14	24	0	10	0	26	34	17
Iran	11	6	2	18	27	26	26	25	10	NA	0	NA	0	--	--
Iraq	1	0	0	3	2	0	2	NA	NA	NA	0	NA	0	--	--
Kuwait(b)	1	2	0	0	0	0	2	0	0	NA	2	NA	8	--	11
Saudi Arabia(b)	2	2	6	3	4	9	24	4	25	NA	40	NA	25	--	--
Neutral Zone(b)	0	0	0	0	0	0	0	0	0	NA	0	NA	2	--	--
Qatar	2	1	6	1	0	0	0	0	0	NA	3	NA	4	--	3
Oman	2	0	16	0	0	0	0	10	24	NA	15	NA	31	38	29
Other	46	27	29	32	34	65	51	46	39	NA	18	NA	71	39	50
Total Middle East(c)	72	48	81	65	70	100	120	99	122	NA	88	NA	167	111	110
Indonesia	84	135	137	169	176	186	130	115	146	NA	182	NA	167	NA	216
Other	162	126	175	173	162	127	119	132	249	NA	221	NA	297	NA	468
Total Australasia(c)	246	261	312	342	338	313	249	247	395	377	403	125	464	NA	684
Total Eastern Hemisphere(c)	740	765	826	802	842	909	803	802	1,015	NA	698	916	1,527	843	1,398
TOTAL WORLD(c)	10,544	9,769	10,540	10,975	11,699	12,180	12,959	14,049	15,248	14,315	16,695	20,191	21,299	17,170	19,942

See notes and sources at end of table

International Exploratory Well Completions(a)

Area/Country	1985	1986	1987	1988	1989
United States	12,208	7,156	6,715	6,702	5,315
Canada	3,404	2,034	2,369	2,889	2,525
Mexico	78	68	27	33	24
Total North America	15,690	9,258	9,111	9,624	7,864
Argentina	161	92	45	102	120
Brazil	229	163	176	160	115
Ecuador	2	4	9	14	11
Peru	13	11	13	8	7
Trinidad-Tobago	14	8	8	6	8
Venezuela	6	25	21	17	23
Other	111	84	129	139	126
Total Latin America	536	387	401	446	410
Total Western Hemisphere	16,448	9,645	9,512	10,070	8,274
Total North Sea	254	224	174	NA	NA
Other European	362	366	570	NA	NA
Total Europe	616	579	744	NA	426
Algeria	25	30	25	14	18
Gabon	13	12	16	20	26
Libya	45	27	25	25	26
Nigeria	17	29	44	42	47
Other	184	143	154	146	123
Total Africa	284	241	264	247	240
United Arab Emirates	NA	13	0	8	3
Iran	NA	7	NA	NA	NA
Iraq	NA	2	10	19	2
Kuwait(b)	NA	0	2	1	2
Saudi Arabia(b)	NA	6	NA	3	3
Neutral Zone(b)	NA	0	0	0	NA
Qatar	NA	0	NA	7	3
Oman	NA	32	36	40	44
Other	NA	64	43	81	103
Total Middle East(c)	NA	124	91	159	160
Indonesia	208	122	75	103	102
Other	256	323	310	226	52
Total Australasia(c)	464	445	385	329	154
Total Eastern Hemisphere(c)	NA	1,380	1,484	635	1,048
TOTAL WORLD(c)	NA	11,025	10,996	10,705	9,322

See notes and sources at end of table

International Exploratory Well Completions(a)

(a) Data for all countries is not available.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis.
(c) Totals reflect data for countries not individually listed.
NA = Not Available.

SOURCE: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of World: International Petroleum Encyclopedia. Copyright PennWell Books, 1991.

United States Annual Average Rotary Rig Activity by State

STATE	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6	5	2	1	2
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9	6	5	6	13
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13	10	9	11	10
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	2	1	1
California	173	134	157	165	169	138	143	119	97	80	93	80	82	97	85	93	89	79
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30	23	21	19	16
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1	0	1	4	2
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0	1	0	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32	25	20	24	30
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6	6	6	5	5
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1	1	0	0	1
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101	96	87	70	56
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6	10	8	12	13
Louisiana	239	231	243	257	280	312	401	442	423	309	332	267	275	261	265	282	270	256
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	2	2	4
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15	14	13	11	9
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46	46	39	35	34
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	0	0	1
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27	22	21	26	24
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16	12	11	10	8
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0	0	1	2	1
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94	84	79	65	60
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2	1	1	1	1
North Carolin	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14	9	14	12	12
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8	12	56	22	14
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174	158	158	163	141
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9	12	11	9	10
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1	1	1	2	0
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570	500	477	425	387
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29	22	17	14	14
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	0	0	1
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13	14	16	24	19
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53	55	48	50	48
TOTAL(a)	2,017	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637	1,500	1,502	1,387	1,273

See notes and sources at end of table

Section III
Table 14a

United States Annual Average Rotary Rig Activity by State

STATE	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alabama	2	3	6	7	8	15	13	12	14	17	13	13	13	11	17	15	16	15
Alaska	21	20	28	14	5	5	5	9	14	14	15	16	13	14	23	22	14	14
Arkansas	8	7	16	13	15	15	15	18	14	15	14	14	10	27	34	27	26	26
Arizona	3	1	2	0	1	0	2	1	0	1	1	0	0	1	1	1	0	0
California	83	87	78	52	46	46	51	72	80	89	90	94	96	120	155	129	106	107
Colorado	16	17	23	25	30	35	42	46	42	38	45	41	40	61	82	61	52	54
Florida	2	1	1	4	11	18	9	7	9	5	6	6	5	4	8	5	4	4
Georgia	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Idaho	0	0	0	1	0	0	1	0	0	1	1	3	2	3	3	1	1	1
Illinois	30	22	17	14	13	14	6	7	19	22	16	28	13	25	45	76	60	41
Indiana	3	2	1	1	1	1	0	1	2	0	3	4	0	0	1	7	6	7
Iowa	0	0	0	0	1	2	1	0	2	0	1	0	0	0	0	0	0	0
Kansas	41	35	38	30	29	24	28	44	57	51	67	76	66	120	196	158	124	128
Kentucky	9	5	2	1	2	2	1	2	1	1	2	3	0	0	5	10	8	8
Louisiana	235	233	230	204	194	215	205	203	228	231	292	338	347	427	456	344	283	310
Maryland	0	1	1	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0
Michigan	10	10	10	11	12	17	20	24	28	24	24	24	25	31	36	31	29	34
Mississippi	33	36	40	43	39	37	29	29	25	32	42	44	40	58	71	42	33	32
Missouri	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Montana	22	34	31	17	17	20	19	24	27	28	27	30	33	49	81	37	24	36
Nebraska	5	5	10	6	5	6	5	7	9	8	9	10	9	14	15	9	9	9
Nevada	1	2	0	0	0	0	0	1	0	2	3	2	4	5	5	3	1	5
New Mexico	56	68	64	40	47	56	62	79	71	54	69	76	88	118	135	104	65	78
New York	1	1	0	0	1	0	1	7	8	9	7	7	9	7	12	15	10	9
North Carolin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	11	13	12	9	9	7	10	12	17	19	24	39	56	83	119	70	43	51
Ohio	18	22	22	24	17	22	36	30	21	26	33	45	46	75	98	57	39	51
Oklahoma	101	106	120	98	90	90	115	146	177	186	233	258	247	397	698	623	285	319
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0
Pennsylvania	7	5	7	9	9	8	11	14	10	10	15	25	29	29	39	33	22	36
Rhode Island	0	0	0	0	0	0	0	0	0	0	1	4	4	2	0	0	0	0
South Dakota	0	1	1	2	1	1	1	1	1	2	3	2	1	2	2	1	1	2
Tennessee	1	0	1	2	1	0	0	0	0	0	0	0	0	1	0	2	1	0
Texas	340	329	322	302	291	338	376	508	638	653	779	855	770	988	1,316	994	796	850
Utah	15	12	12	12	17	34	38	42	26	19	30	32	29	42	69	40	37	45
Virginia	0	0	0	1	1	0	1	2	3	0	1	1	1	1	4	3	2	2
Washington	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1
West Virginia	15	16	18	16	17	17	20	16	10	12	17	27	30	38	45	49	34	38
Wyoming	44	75	81	71	45	61	70	107	107	86	118	137	147	156	191	143	96	115
TOTAL(a)	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656	2,001	2,255	2,176	2,910	3,969	3,117	2,229	2,428

See notes and sources at end of table

United States Annual Average Rotary Rig Activity by State

STATE	1985	1986	1987	1988	1989	1990	1991
Alabama	22	11	11	12	11	26	11
Alaska	20	13	8	12	11	12	11
Arkansas	24	10	9	9	9	11	9
Arizona	0	0	1	0	0	0	0
California	80	49	61	60	49	49	47
Colorado	50	25	25	29	27	30	29
Florida	7	3	4	2	2	2	1
Georgia	0	0	0	0	0	0	0
Hawaii	0	0	0	0	0	2	1
Idaho	1	1	0	1	0	0	0
Illinois	28	6	3	4	5	4	4
Indiana	4	1	1	0	0	0	0
Iowa	0	0	1	0	0	0	0
Kansas	91	47	48	40	43	47	37
Kentucky	6	3	2	5	5	8	7
Louisiana	282	143	136	164	140	151	115
Maryland	0	0	0	0	0	0	0
Michigan	34	24	22	20	17	13	8
Mississippi	31	15	13	18	16	13	10
Missouri	0	0	0	0	0	0	0
Montana	23	10	9	8	6	5	5
Nebraska	6	3	5	3	1	2	3
Nevada	5	3	2	2	2	1	2
New Mexico	71	29	35	37	36	50	41
New York	5	2	2	1	1	1	2
North Carolin	0	0	0	0	0	0	0
North Dakota	38	14	14	15	15	20	13
Ohio	29	18	20	14	13	12	13
Oklahoma	251	142	137	126	122	125	106
Oregon	0	0	0	1	0	0	0
Pennsylvania	30	18	17	19	17	15	18
Rhode Island	0	0	0	0	0	0	0
South Dakota	2	1	0	1	1	0	1
Tennessee	0	0	0	1	1	0	0
Texas	677	313	296	281	266	349	317
Utah	29	11	8	6	5	5	11
Virginia	4	6	2	2	2	2	2
Washington	0	0	0	1	1	0	0
West Virginia	26	15	13	13	16	16	14
Wyoming	93	36	40	37	34	37	31
TOTAL(a)	1,969	970	936	936	869	1,010	860

(a) Totals may not add due to independent rounding.

SOURCE: Baker-Hughes Tool Company

Section III
Table 15

United States Total Wells Reported as Completed by State

STATE/AREA	1967			1968			1969			1970(g)			1971		
	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	28	10	38	18	14	32	34	14	48	30	16	46	55	21	79
Alaska	33	41	74	18	86	107	12	51	67	30	45	77	5	28	33
Offshore(b)	0	0	0	0	0	0	2	44	50	1	16	19	0	1	1
Arizona	14	10	24	6	4	10	24	14	39	9	3	13	10	4	15
Arkansas	87	320	409	111	211	322	131	288	422	87	230	328	93	235	351
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	352	2,182	2,668	353	2,366	2,888	288	1,712	2,167	243	1,791	2,316	221	1,591	2,095
Offshore(b)	12	73	101	28	304	367	17	210	262	15	117	144	15	56	76
Colorado	277	262	539	270	224	495	538	276	820	461	249	710	605	385	990
Florida	11	0	11	9	4	13	8	5	13	13	16	29	18	22	42
Georgia	0	0	0	0	0	0	2	0	2	3	0	3	1	0	1
Idaho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	328	861	1,339	253	789	1,226	241	639	988	198	482	753	152	406	622
Indiana	254	220	510	158	179	367	178	189	407	149	143	307	110	101	228
Iowa	1	0	25	0	0	22	0	0	7	3	0	5	1	0	1
Kansas	1,270	1,937	3,345	1,186	1,849	3,107	1,058	1,919	3,105	882	1,642	2,574	735	1,603	2,398
Kentucky	458	1,086	1,647	453	828	1,379	256	696	1,030	234	594	892	213	557	829
Louisiana	935	2,209	3,185	1,026	2,415	3,478	865	2,272	3,174	669	2,376	3,084	830	2,198	3,078
Offshore(b)	296	559	867	352	696	1,068	147	678	835	150	788	953	274	564	861
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Michigan	173	191	365	174	196	380	164	168	348	152	126	281	162	141	306
Mississippi	347	368	722	382	297	688	373	342	716	232	310	563	213	287	524
Missouri	4	0	19	4	12	38	7	22	57	4	10	15	7	7	15
Montana	302	252	580	465	400	882	499	296	834	307	148	473	323	134	485
Nebraska	95	84	179	196	89	288	285	98	388	167	83	251	130	83	215
Nevada	7	2	9	0	0	0	14	2	16	2	0	9	6	0	6
New Mexico	166	925	1,118	154	743	925	190	984	1,219	159	580	774	158	696	867
New York	35	176	238	9	97	120	6	128	166	11	88	110	10	90	129
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12
North Dakota	60	93	156	121	62	186	178	74	252	87	57	145	98	60	158
Ohio	75	1,186	1,267	79	1,084	1,165	53	1,185	1,255	35	1,310	1,346	41	1,210	1,256
Oklahoma	421	2,431	3,074	422	2,318	2,996	546	2,567	3,395	452	2,135	2,783	430	1,815	2,444
Oregon	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
Offshore(b)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	59	564	683	62	733	897	43	853	1,018	43	664	759	21	719	786
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	4	0	4	4	0	4	56	0	56	64	1	65	24	8	32
Tennessee	47	0	47	25	1	26	23	3	27	50	48	98	113	57	170
Texas	2,508	6,628	9,576	2,207	5,407	8,743	2,718	5,938	9,233	2,022	5,681	8,130	1,848	5,427	7,737
Offshore(b)	61	41	102	40	13	53	103	11	114	49	8	57	31	7	38
Utah	67	75	144	41	58	99	103	71	175	46	39	87	61	36	98
Virginia	0	0	0	0	0	0	8	2	10	0	0	0	0	7	7
Washington	3	0	3	2	0	2	0	0	0	0	0	12	0	0	0
Offshore(b)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	36	738	777	87	646	735	83	819	920	88	998	1,111	66	696	768
Wyoming	420	505	1,042	584	608	1,293	716	859	1,678	504	872	1,393	357	513	903
N. Gulf of Mexico(c)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,878	23,356	33,818	8,879	21,720	32,914 (e)	9,701 (f)	22,486	34,053 (f)	7,436	20,737	29,542	7,131	19,137	27,682

See notes and sources at end of table

Section III
Table 15a

United States Total Wells Reported as Completed by State

STATE/AREA	1972 Exploratory	1972 Development	1972 Total(a)	1973 Exploratory	1973 Development	1973 Total(a)	1974 Exploratory	1974 Development	1974 Total(a)	1975 Exploratory	1975 Development	1975 Total(a)	1976 Exploratory	1976 Development	1976 Total(a)
Alabama	87	32	119	72	39	111	48	38	86	76	53	130	54	62	116
Alaska	12	13	30	13	19	33	12	27	39	24	41	69	6	54	77
Offshore(b)	0	4	7	3	6	10	0	11	11	1	13	14	0	13	18
Arizona	13	10	23	2	8	10	1	1	2	1	0	2	2	0	2
Arkansas	98	240	344	79	206	292	91	231	325	77	245	330	80	348	438
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	193	1,202	1,674	202	1,073	1,393	253	1,915	2,397	213	2,028	2,694	257	2,161	2,808
Offshore(h)	4	55	80	2	50	65	5	67	79	5	56	66	7	21	28
Colorado	473	501	975	462	478	945	374	537	919	405	762	1,172	389	762	1,152
Florida	39	67	109	34	23	60	28	11	40	34	17	52	9	16	26
Georgia	2	0	2	4	0	4	5	0	5	3	0	3	3	0	3
Idaho	1	0	1	5	0	5	2	0	2	1	0	1	2	0	2
Illinois	157	453	655	213	386	656	225	577	855	253	764	1,129	226	1,058	1,484
Indiana	130	138	284	139	100	259	168	208	389	156	217	400	196	291	509
Iowa	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
Kansas	773	1,645	2,498	754	1,416	2,244	855	1,913	2,960	909	2,444	3,728	893	2,646	3,705
Kentucky	217	541	817	165	458	652	197	508	759	341	631	1,013	425	742	1,189
Louisiana	731	2,481	3,244	678	2,015	2,719	652	2,120	2,833	722	2,322	3,105	607	2,719	3,373
Offshore(b)	200	797	1,008	202	548	760	149	452	620	147	525	679	94	473	572
Maryland	1	0	1	0	0	1	1	0	1	1	0	3	0	2	3
Michigan	182	127	317	191	113	307	264	165	441	282	249	536	294	213	530
Mississippi	237	184	455	209	145	367	288	148	440	260	183	454	265	233	504
Missouri	3	0	4	11	2	13	20	7	98	19	6	95	9	13	44
Montana	430	287	733	448	233	685	420	369	792	355	503	858	362	409	773
Nebraska	185	90	275	102	67	176	167	91	263	206	133	347	193	119	312
Nevada	2	0	2	0	0	0	2	0	2	5	0	5	8	0	8
New Mexico	200	864	1,093	191	849	1,083	215	963	1,193	162	974	1,173	162	859	1,042
New York	14	115	144	21	177	222	53	264	373	35	538	610	40	419	519
North Carolina	2	0	2	7	0	7	3	0	3	1	0	1	0	0	1
North Dakota	60	33	94	71	51	129	76	68	145	105	100	205	122	122	245
Ohio	64	1,484	1,548	160	1,563	1,724	134	1,414	1,552	157	1,400	1,558	133	2,071	2,205
Oklahoma	400	1,888	2,502	353	2,000	2,470	399	2,846	3,386	411	3,404	3,960	452	4,104	4,741
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	83	946	1,100	94	1,151	1,299	124	1,303	1,559	88	1,116	1,270	67	1,212	1,316
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	18	1	19	16	1	17	11	2	17	24	3	27	29	6	36
Tennessee	68	27	95	68	29	99	117	64	181	169	63	232	153	46	199
Texas	2,077	5,839	8,365	2,416	5,906	8,656	3,141	6,881	10,321	3,291	9,588	13,276	3,276	9,335	12,982
Offshore(b)	52	6	58	69	11	80	157	8	166	150	15	166	174	130	304
Utah	77	76	153	77	131	208	55	153	211	64	129	196	41	87	131
Virginia	1	15	16	3	17	20	8	37	45	8	28	36	3	8	11
Washington	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	89	576	669	109	749	858	81	657	741	95	661	772	114	875	1,035
Wyoming	432	508	1,058	402	516	938	463	550	1,026	473	822	1,327	415	630	1,059
N. Gulf of Mexico(c)	0	0	0	0	0	0	14	0	14	33	1	34	27	1	28
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	0	0	0	0	0	0	0	0	0	[illegible]	0	1	0	0	1
Total	7,551	20,383	29,420	7,771	19,921	28,662	8,969	24,068	34,415	9,459	29,425	40,804	9,317	31,623	42,614 (h)

See notes and sources at end of table

United States Total Wells Reported as Completed by State

STATE/AREA	1977 Explor-atory	1977 Develop-ment	1977 Total(a)	1978 Explor-atory	1978 Develop-ment	1978 Total(a)	1979 Explor-atory	1979 Develop-ment	1979 Total(a)	1980 Explor-atory	1980 Develop-ment	1980 Total(a)	1981 Explor-atory	1981 Develop-ment	1981 Total(a)
Alabama	47	88	136	60	101	161	101	118	219	77	119	196	75	142	222
Alaska	21	48	73	12	55	76	14	71	96	16	108	125	20	146	172
Offshore(b)	3	12	19	2	7	11	2	5	8	0	5	6	0	4	5
Arizona	2	2	4	0	8	8	2	1	4	6	0	6	8	5	14
Arkansas	82	399	491	95	347	450	105	393	504	111	496	612	154	723	889
Atlantic Coast(d)	0	0	1	7	0	7	18	0	18	4	0	4	5	0	5
California	275	1,938	2,553	359	1,639	2,485	395	1,592	2,340	443	2,072	3,039	538	2,593	3,838
Offshore(b)	17	39	63	15	65	85	8	85	123	7	77	137	7	148	193
Colorado	392	791	1,212	449	701	1,156	456	607	1,069	553	857	1,414	849	1,122	1,977
Florida	14	15	32	15	11	29	11	20	32	8	11	21	10	15	25
Georgia	0	0	0	1	0	1	0	0	0	1	0	1	2	0	2
Idaho	1	0	1	7	0	7	3	0	3	5	0	5	5	0	5
Illinois	238	851	1,143	277	855	1,202	284	967	1,327	487	1,828	2,482	736	2,550	3,436
Indiana	276	337	621	268	401	685	183	302	494	327	406	751	347	460	828
Iowa	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Kansas	1,043	2,899	4,060	1,181	3,312	4,576	1,022	3,338	4,436	1,237	4,923	6,266	1,848	6,542	8,551
Kentucky	368	688	1,095	353	657	1,077	423	709	1,195	619	1,463	2,171	870	2,030	3,062
Louisiana	640	2,753	3,439	782	3,001	3,817	665	3,358	4,063	808	4,223	5,147	971	4,362	5,503
Offshore(b)	138	634	785	121	594	723	123	598	723	146	493	644	176	503	680
Maryland	0	0	3	0	0	3	0	0	0	1	0	1	1	0	1
Michigan	297	243	545	267	257	539	255	264	538	316	345	676	402	362	787
Mississippi	272	255	539	241	248	496	242	281	534	310	360	680	357	431	788
Missouri	8	4	53	6	26	49	15	56	85	22	143	266	78	189	397
Montana	273	400	679	324	453	778	349	471	822	382	507	902	521	744	1,289
Nebraska	235	186	425	265	183	451	265	184	450	252	260	514	279	327	608
Nevada	12	6	18	14	7	22	11	0	12	20	1	21	28	2	34
New Mexico	180	1,210	1,407	205	1,375	1,625	212	1,396	1,656	273	1,793	2,126	358	2,099	2,527
New York	49	345	485	45	330	427	60	437	513	59	436	507	79	492	578
North Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	111	131	242	162	178	341	175	265	440	256	360	619	461	417	879
Ohio	81	2,685	2,768	77	3,254	3,333	114	3,532	3,657	66	5,023	5,093	151	5,926	6,082
Oklahoma	490	4,821	5,344	495	5,641	6,164	479	6,477	6,980	554	9,568	10,158	733	12,357	13,125
Oregon	2	0	2	0	0	0	17	4	21	32	9	41	20	0	20
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	116	1,433	1,569	94	2,013	2,182	105	2,068	2,295	256	2,833	3,261	342	3,517	3,962
South Carolina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	20	23	43	21	29	50	32	17	49	33	41	75	47	43	90
Tennessee	177	110	287	149	115	264	163	185	348	293	257	550	333	295	628
Texas	3,726	10,898	15,114	4,085	11,260	15,863	3,910	11,414	15,810	4,354	15,172	20,038	5,688	20,291	26,442
Offshore(b)	131	180	311	160	147	307	123	87	210	113	132	245	125	114	239
Utah	103	184	305	80	186	268	89	187	284	112	177	291	208	347	555
Virginia	9	16	25	5	26	31	4	21	25	2	25	27	6	26	32
Washington	0	0	0	0	0	0	0	0	6	2	0	3	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	115	1,112	1,267	151	1,352	1,537	124	1,445	1,612	119	1,752	1,924	170	1,948	2,170
Wyoming	440	827	1,281	470	996	1,489	411	963	1,392	435	1,037	1,518	708	1,289	2,043
N. Gulf of Mexico(c)	17	17	34	4	14	18	18	12	30	16	11	27	22	12	34
Pacific Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska(d)	7	0	11	4	0	4	3	0	3	4	0	4	0	0	0
Total	10,140	35,715	47,308	11,030	39,031	51,671	10,735	41,155	53,362	12,870	56,616	71,562	17,430	71,804	91,600

See notes and sources at end of table

United States Total Wells Reported as Completed by State

STATE/AREA	1982			1983			1984			1985			1986		
	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	79	133	214	84	133	217	121	262	383	143	217	360	77	143	220
Alaska	10	200	227	3	157	163	10	165	186	5	98	104	2	176	184
Offshore(b)	0	8	11	0	6	6	0	2	2	0	6	6	0	8	8
Arizona	7	1	14	11	1	12	2	0	2	2	1	3	6	0	6
Arkansas	128	680	825	154	723	900	133	739	897	122	875	1,018	85	399	484
Atlantic Coast(d)	7	0	7	1	0	1	3	0	3	0	0	0	0	0	0
California	468	2,107	3,097	195	2,143	2,733	204	3,276	3,898	201	3,122	3,599	142	1,993	2,252
Offshore(b)	16	175	231	16	77	103	13	104	132	4	84	92	0	41	41
Colorado	653	1,173	1,832	504	978	1,484	579	1,221	1,806	563	986	1,551	285	742	1,029
Florida	12	9	21	13	7	20	12	12	24	10	11	21	6	8	14
Georgia	1	0	1	0	0	0	3	0	3	1	0	1	2	0	2
Idaho	6	0	6	4	0	4	3	0	3	3	0	3	4	0	4
Illinois	695	2,433	3,253	729	2,181	3,035	699	2,194	2,941	537	1,840	2,381	307	1,021	1,343
Indiana	451	571	1,051	453	534	1,022	404	523	990	403	540	972	152	272	443
Iowa	0	0	0	0	0	0	0	0	0	1	0	1	3	0	3
Kansas	1,838	6,491	8,561	1,718	5,342	7,265	2,346	4,088	6,550	1,503	3,986	5,584	1,110	2,029	3,146
Kentucky	1,119	2,583	3,804	1,375	2,721	4,232	972	2,781	3,844	635	1,976	2,843	198	814	1,016
Louisiana	801	4,244	5,117	592	4,359	5,048	763	6,001	6,891	621	4,754	5,450	427	2,238	2,669
Offshore(b)	157	432	589	114	685	801	197	704	901	165	481	647	146	344	493
Maryland	0	0	0	0	0	0	2	0	2	0	0	0	1	0	1
Michigan	449	435	900	302	457	772	536	568	1,121	454	394	863	259	265	541
Mississippi	268	316	584	252	298	550	282	332	615	260	312	572	109	185	295
Missouri	79	104	305	43	133	243	28	85	260	15	62	84	5	5	10
Montana	275	536	816	181	326	511	251	557	820	222	385	609	143	205	348
Nebraska	197	212	414	187	181	369	180	186	377	160	114	277	85	55	156
Nevada	11	0	13	7	1	8	32	5	37	25	9	34	20	0	20
New Mexico	314	1,733	2,100	192	1,301	1,527	225	1,338	1,668	288	1,434	1,743	157	760	934
New York	44	623	668	41	370	413	30	579	609	18	418	436	11	246	257
North Carolina	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0
North Dakota	371	325	696	211	278	489	279	421	700	219	278	497	126	93	219
Ohio	180	4,618	4,814	114	4,150	4,288	108	4,818	4,958	84	3,652	3,743	31	1,906	1,946
Oklahoma	707	10,660	11,390	567	8,340	8,943	515	8,990	9,579	406	7,133	7,617	219	4,315	4,570
Oregon	8	0	8	0	0	0	1	0	1	3	2	5	8	2	10
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	165	3,168	3,399	92	2,324	2,465	102	3,358	3,533	60	2,718	2,806	24	1,234	1,258
South Carolina	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
South Dakota	33	20	53	34	18	52	16	28	44	16	31	49	17	0	17
Tennessee	413	214	627	328	189	517	164	202	366	117	120	237	57	125	182
Texas	5,077	19,707	25,439	4,524	18,897	24,089	5,111	21,810	27,696	4,174	19,225	24,291	2,520	10,253	13,253
Offshore(b)	141	99	240	109	53	162	111	78	189	118	98	216	50	52	102
Utah	149	313	482	132	283	415	112	380	493	54	302	359	37	159	198
Virginia	26	71	97	14	21	36	3	64	67	3	85	88	7	132	139
Washington	5	0	8	1	0	5	1	0	7	2	2	4	0	0	0
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	156	1,921	2,114	60	1,556	1,619	37	1,846	1,919	35	1,393	1,432	15	872	887
Wyoming	537	1,124	1,719	473	997	1,508	607	1,142	1,804	552	918	1,533	363	452	830
N. Gulf of Mexico(c)	22	26	48	13	42	55	57	26	83	95	29	124	61	49	110
Pacific Coast(d)	4	0	4	22	0	22	12	0	12	4	0	4	4	4	8
Alaska(d)	1	0	1	0	0	0	2	0	2	10	0	10	4	2	6
Total	15,766	66,751	84,729	13,627	59,421	75,032	14,949	68,057	85,196	12,026	57,402	71,108	7,087	31,154	39,010

See notes and sources at end of table

United States Total Wells Reported as Completed by State

	1987			1988			1989			1990			1991		
STATE/AREA	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)	Exploratory	Development	Total(a)
Alabama	69	203	272	100	233	333	110	397	507	110	943	1,053	56	789	845
Alaska	4	89	96	5	132	144	7	95	119	6	105	119	6	85	96
Offshore(b)	0	3	5	0	10	12	1	6	9	1	8	10	0	2	3
Arizona	4	0	4	1	0	1	1	0	1	0	4	4	0	0	1
Arkansas	90	323	413	58	372	430	58	254	313	56	265	321	40	185	226
Atlantic Coast(d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	170	2,167	2,538	125	1,781	2,133	138	1,580	1,826	101	1,942	2,253	89	1,309	1,753
Offshore(b)	6	36	42	4	32	37	5	25	32	0	20	32	0	28	36
Colorado	258	628	890	292	740	1,033	322	602	930	275	849	1,126	156	555	712
Florida	4	5	9	7	3	10	9	2	11	9	1	10	7	0	7
Georgia	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0
Idaho	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0
Illinois	235	981	1,323	307	778	1,230	263	529	831	181	550	773	129	417	577
Indiana	154	180	352	113	147	279	76	117	198	50	93	154	37	73	119
Iowa	1	0	1	1	0	1	5	0	5	2	0	2	0	0	0
Kansas	1,247	1,983	3,236	994	2,007	3,005	887	1,688	2,578	893	1,981	2,874	721	1,271	1,995
Kentucky	190	995	1,201	160	1,028	1,197	159	879	1,041	101	754	857	51	442	493
Louisiana	347	2,057	2,404	346	1,906	2,253	262	1,421	1,689	267	1,587	1,854	160	1,020	1,181
Offshore(b)	125	363	488	176	455	631	109	332	441	111	377	488	67	149	216
Maryland	1	0	1	2	0	2	0	0	0	0	0	0	0	0	0
Michigan	274	252	537	254	383	640	185	663	850	137	850	990	79	486	569
Mississippi	115	201	317	138	207	345	132	160	292	127	151	278	96	98	194
Missouri	6	12	18	10	2	12	7	1	8	8	4	12	1	21	24
Montana	99	188	298	139	208	355	63	173	236	80	251	333	45	190	235
Nebraska	128	65	204	91	43	135	62	41	103	86	39	128	56	56	114
Nevada	13	2	15	15	3	21	16	7	25	22	9	35	14	6	25
New Mexico	155	627	800	111	769	889	96	808	923	81	1,205	1,305	81	965	1,063
New York	8	246	254	8	171	179	4	100	104	3	6	9	0	0	0
North Carolina	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	96	88	186	137	118	256	80	102	182	131	125	257	76	95	171
Ohio	42	1,752	1,794	40	1,339	1,382	22	1,241	1,264	55	1,205	1,260	35	524	562
Oklahoma	244	3,579	3,883	258	3,054	3,368	217	2,592	2,906	260	2,493	2,831	214	1,973	2,228
Oregon	6	4	10	11	4	18	8	6	14	1	2	3	6	1	7
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	30	1,110	1,141	42	997	1,039	34	850	884	36	419	455	3	63	66
South Carolina	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0
South Dakota	9	6	15	9	10	20	9	7	16	9	4	14	7	1	8
Tennessee	34	131	165	10	75	85	9	51	60	4	32	36	2	15	17
Texas	2,224	8,663	11,259	1,976	7,570	9,978	1,685	6,479	8,503	1,521	7,059	8,868	1,210	6,456	7,947
Offshore(b)	59	58	117	91	93	184	68	114	182	98	103	201	46	24	70
Utah	48	71	122	45	86	133	25	57	84	23	71	94	38	135	175
Virginia	2	19	21	4	25	29	2	20	22	0	6	6	0	0	0
Washington	1	0	1	3	0	3	3	0	3	0	0	0	1	0	1
Offshore(b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	20	842	862	11	654	665	7	782	789	1	711	712	5	532	537
Wyoming	328	448	809	322	391	731	197	386	604	286	494	873	150	300	476
N. Gulf of Mexico(c)	44	32	76	89	44	133	69	49	118	48	43	91	29	27	56
Pacific Coast(d)	0	6	6	1	5	6	0	5	5	0	0	0	0	1	1
Alaska(d)	0	1	1	1	0	1	2	0	2	2	0	2	0	0	0
Total	6,705	27,956	35,538	6,241	25,285	32,479	5,231	22,143	28,046	4,952	24,253	29,991	3,600	18,091	22,481

United States Total Wells Reported as Completed by State

(a) Includes service wells, stratigraphic and core tests.

(b) Included in state total.

(c) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(d) Alaska (offshore federal waters), Atlantic Coast and Pacific Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

(e) Total includes one well completed in Minnesota

(f) Total includes one exploratory well completed in Vermont

(g) Prior to 1970, well data shown are for wells reported to the API for that year. Because the time span between the time wells were actually completed and when they were reported to the API began to grow significantly, the date of publication began to seriously lag the actual well-completion date. Hence, beginning in 1970 the statistics show the year in which the wells were completed, regardless of the time frame in which they were reported to the API.

(h) Total includes one well completed offshore Massachusettes, and one completed in New Jersey.

SOURCE: 1967-1969: American Petroleum Institute and the American Association of Petroleum Geologists.
1970-1981: American Petroleum Institute, Well Completions and Footage Drilled in the United States, 1970-1982.
1982-1991: American Petroleum Institute, Quarterly Completion Reports.

Section III
Table 16

United States Rotary Rig Census

Year		Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	Drilling Depth Capabilities (Thousand Feet) 0-5	6-9	10-12	13-15	16-Over	Total Land Rigs	Drilling Barges	Offshore Rigs
1967	(a)	2,408	2,359	49	835	1,573	623	776	435	199	375	2,114	121	173
1968		2,111	2,067	44	603	1,508	493	680	381	185	372	1,825	114	172
1969		2,060	2,033	27	411	1,649	528	626	352	188	366	1,827	98	135
1970		1,898	1,869	29	567	1,331	434	580	322	219	343	1,662	106	130
1971		1,859	1,832	27	551	1,308	436	535	329	198	361	1,592	124	143
1972		1,768	1,741	27	387	1,381	409	490	301	171	397	1,551	77	140
1973		1,767	1,739	28	294	1,473	355	517	318	164	413	1,570	71	126
1974		1,894	1,881	13	125	1,769	387	529	339	214	425	1,715	66	113
1975		2,028	2,014	14	151	1,877	396	579	380	225	558	1,839	74	115
1976		2,204	2,180	24	225	1,979	468	633	366	239	498	1,964	76	164
1977		2,482	2,451	31	83	2,399	542	628	461	274	577	2,186	77	219
1978		2,851	2,818	33	66	2,785	557	723	565	313	693	2,524	91	236
1979		3,182	3,144	38	308	2,874	546	783	631	350	872	2,802	109	271
1980		3,672	3,626	46	130	3,542	605	885	704	419	1,059	3,255	115	302
1981		4,803	4,762	41	100	4,703	773	1,080	950	595	1,405	4,316	161	326
1982		5,644	5,606	38	2,419	3,225	821	1,285	1,104	717	1,717	5,139	157	348
1983		5,273	5,241	32	2,734	2,539	746	1,233	993	662	1,639	4,832	128	313
1984		4,580	4,553	27	1,490	3,090	571	1,077	933	591	1,408	4,102	131	347
1985		4,409	4,386	23	1,784	2,625	529	1,084	894	570	1,332	3,940	121	348
1986		3,993	3,961	32	2,941	1,052	517	971	789	496	1,220	3,573	90	330
1987		3,331	3,299	32	1,943	1,388	435	841	637	427	991	2,956	91	284
1988		2,752	2,716	36	1,220	1,532	336	751	529	365	771	2,429	64	259
1989		2,542	2,508	34	1,098	1,444	294	700	515	329	704	2,249	63	230
1990		2,320	2,294	26	643	1,677	276	623	488	313	620	2,061	54	205

(a) Data for prior years not available on a comparable basis.

SOURCE: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year and published in the October issue of World Oil Magazine)

Section III
Table 17

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	2
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	8	10
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	7
Arkansas	160	165	168	179	190	200	230	240	240	255	260	300	320	370	485	480	490
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652	774	826	879
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466	462	451	501
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45	74	30	25
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350	300	290	285
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003	6,633	6,915	7,050
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829	5,119	5,200	5,210
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479	6,990	7,442	7,859
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	38	38	34	33	33
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154	155	174	175
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400	472	490	450
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	0	9	9	6	6
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999	981	954	905
Nebraska	0	0	0	0	0	0	0	0	0	0	0	0	50	53	49	47	44
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047	6,491	6,967	7,150
New York	1,700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000	1,109	1,130	1,130
North Dakota	0	0	0	0	0	0	0	0	.0	0	0	0	28	28	28	29	31
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063	7,077	7,117	7,128
Oklahoma	3,250	3,400	3,500	3,600	3,630	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800	6,218	6,324	6,639
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350	16,500	16,600	16,600
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee(a)	0	18	18	18	20	20	27	28	28	28	30	30	25	30	23	30	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612	19,831	20,834	22,016
Utah	0	0	0	0	0	0	0	0	0	0	0	0	37	35	135	121	135
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	53	92	98	98	98
West Virginia	15,800	16,100	15,500	13,800	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500	16297	17,121	17,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350	460	547	578
Other	30	34	40	43	70	100	109	117	125	130	145	170	0	0	0	0	0
Total	63,670	64,212	64,146	64,900	65,100	65,450	68,223	70,192	71,475	74,261	77,041	80,400	83,225	90,761	96,809	100,267	102,966

See notes and sources at end of table

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	0	0	0	0	1	1	2	0	15	15	6	45	66	69	189	250	314
Alaska	13	11	19	21	18	44	51	40	50	52	52	61	50	50	52	58	71
Arizona	10	8	9	7	4	4	4	5	4	4	1	1	1	1	1	1	1
Arkansas	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172	1,128	1,223	1,253	1,335	1,402	1,114
California	950	1,033	1,068	1,059	994	897	980	962	1,086	1,095	1,142	1,585	1,123	1,050	1,131	1,117	1,125
Colorado	560	701	826	827	810	805	861	928	934	1,050	1,347	1,380	1,500	2,053	2,318	2,574	2,997
Illinois	25	25	3	3	5	5	8	14	31	36	37	41	34	34	51	51	70
Indiana	280	275	275	271	265	263	50	83	87	106	474	478	563	596	641	655	698
Kansas	7,174	7,200	8,608	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800	8,865	9,330	9,375	9,450	10,544	12,820
Kentucky	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307	7,386	7,505	7,649	7,776	7,883	7,984
Louisiana	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248	11,359	11,370	12,484	13,333	14,464	16,190
Maryland	16	20	8	13	15	13	16	14	16	15	15	15	14	12	12	12	9
Michigan	195	226	250	244	199	211	1,235	1,171	1,317	1,145	503	209	214	212	376	376	423
Mississippi	435	370	376	360	347	322	325	400	252	250	239	248	257	365	402	433	447
Missouri	6	11	11	11	11	11	11	2	3	2	3	3	3	7	7	0	0
Montana	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450	1,235	1,490	1,438	1,755	1,881	1,881
Nebraska	41	39	37	37	36	35	35	29	29	29	25	19	17	18	22	20	22
New Mexico	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915	10,352	10,674	11,812	12,609	13,598	14,571
New York	1,155	1,150	1,164	1,159	1,155	818	600	600	650	789	700	900	1,400	1,600	1,900	2,200	2,076
North Dakota	31	31	31	31	19	33	29	29	21	44	34	18	34	34	23	78	80
Ohio	7,160	7,100	3,790	3,865	7,211	7,334	7,789	8,179	8,630	9,406	10,038	10,382	11,509	13,032	14,197	15,827	17,251
Oklahoma	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401	9,769	10,436	11,570	12,861	14,417	16,419
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Pennsylvania	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,600	16,600	17,123	17,300	17,500	17,391	18,900	19,800	19,900
South Dakota	0	0	0	0	0	0	0	0	5	10	20	20	20	20	20	10	13
Tennessee(a)	30	20	20	21	23	26	15	20	45	6	13	5	7	49	75	184	177
Texas	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646	26,184	27,762	31,512	33,157	35,650	37,724
Utah	135	148	156	168	165	171	173	178	200	158	114	271	71	535	171	182	200
Virginia	100	99	104	104	111	111	115	115	130	178	174	186	180	202	227	258	258
West Virginia	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450	21,700	22,100	22,600	23,575	24,725	25,900
Wyoming	610	701	741	749	787	521	800	840	887	850	900	950	990	995	888	1,236	1,264
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	103,084	111,680	112,498	112,321	114,391	114,476	117,483	120,210	121,158	124,178	126,349	132,095	137,443	148,018	157,454	169,891	182,004

See notes and sources at end of table

Producing Natural Gas and Condensate Wells in the United States by State
(As of December 31)

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	385	489	461	690	863	1,029	1,135	1,264	1,701	2,362
Alaska	79	97	78	81	84	85	85	91	108	111
Arizona	1	1	1	1	1	1	0	0	3	5
Arkansas	1,600	1,959	1,763	2,371	2,623	2,719	2,847	2,996	2,830	2,952
California	1,110	1,352	1,413	1,469	1,566	1,316	1,294	1,469	1,214	1,162
Colorado	3,543	4,008	4,391	4,549	4,401	4,398	4,530	4,426	5,125	5,741
Illinois	70	57	64	81	123	152	169	293	241	356
Indiana	720	736	737	758	1,272	1,289	1,298	1,295	1,310	1,307
Kansas	15,550	13,800	14,100	4,925	15,980	11,485	13,631	15,300	13,935	16,980
Kentucky	8,151	8,219	8,532	8,798	9,285	9,747	10,366	10,777	11,248	11,713
Louisiana	17,048	16,586	16,700	17,124	16,716	15,313	15,890	14,071	16,309	16,889
Maryland	10	8	8	9	7	6	8	8	8	7
Michigan	448	484	414	535	655	651	722	988	1,207	1,438
Mississippi	470	596	552	683	710	414	775	634	543	585
Missouri	0	0	0	4	4	9	3	4	4	8
Montana	2,140	2,111	2,133	2,153	2,260	2,799	2,349	2,553	2,700	2,607
Nebraska	25	23	23	23	19	16	20	18	15	11
New Mexico	15,560	16,967	17,547	17,806	18,308	18,647	18,806	15,909	17,087	17,124
New York	2,636	2,969	3,423	3,500	4,500	4,947	5,167	5,090	5,304	5,525
North Dakota	65	66	51	55	62	61	61	61	61	103
Ohio	19,405	22,112	25,762	28,657	31,343	32,721	33,616	33,793	34,450	34,586
Oklahoma	18,451	20,742	22,230	3,691	24,756	25,762	26,595	27,307	27,443	24,547
Oregon	9	6	8	6	9	14	10	14	18	19
Pennsylvania	21,500	23,000	24,000	25,500	26,500	27,600	27,800	28,000	30,000	30,300
South Dakota	39	38	40	42	44	44	52	51	53	54
Tennessee(a)	255	340	540	780	988	921	840	802	700	690
Texas	40,612	44,130	44,699	45,139	44,320	42,713	43,375	50,588	48,609	50,867
Utah	226	282	322	700	755	594	645	665	834	822
Virginia	288	298	299	425	495	573	689	728	752	819
West Virginia	27,200	27,450	29,675	31,150	32,475	33,400	34,300	35,800	36,240	37,500
Wyoming	1,243	1,827	1,986	2,148	2,220	2,101	2,147	2,284	2,431	2,600
Other	0	0	0	0	0	0	0	0	0	0
Total	198,839	210,753	221,952	233,853	243,344	241,527	249,225	257,279	262,483	269,790

(a) Prior to 1948 included with Kentucky.
(b) Includes offshore wells in state waters only.

SOURCE: 1947-1980: U.S. Bureau of Mines, Natural Gas Annuals
1981-1990: U.S. Energy Information Administration, Natural Gas Annuals.

Section III
Table 18

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Alabama	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	221	281	344	380	418	449	502	519
Alaska	--	--	--	--	--	--	--	--	--	--	--	2	5	17	45	52	54	56
Arizona	--	--	--	--	--	--	--	--	--	--	--	1	2	3	5	4	9	8
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381	6,330	5,918	6,010	6,018
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771	38,184	39,265	40,233	40,916
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021	2,023	2,110	2,030	1,981
Florida	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	11	11	11	11	11	11	12	19
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995	31,911	30,174	30,149	29,500
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176	5,679	5,607	5,951	5,381
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460	40,933	46,750	46,951	46,715
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571	19,857	19,448	14,903	15,226
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682	24,740	26,382	27,638	29,452
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348	4,301	4,282	4,234	4,151
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3,086	2,819	2,560	2,682	2,580
Missouri	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	107	127	121	120	116	105	105	100
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707	3,342	3,692	3,642	3,329
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571	1,860	1,764	1,726	1,711
Nevada	--	--	--	--	--	--	(a)	--	--	--	2	2	2	2	4	4	4	5
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286	15,295	16,102	16,796	17,570
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579	17,829	13,537	13,431	12,526
North Dakota	--	--	--	(a)	(a)	83	257	460	570	789	920	1,150	1,390	1,451	1,683	1,794	1,824	1,881
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743	16,682	16,867	14,605	13,752
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720	79,387	80,799	81,475	80,511
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260	63,576	59,673	54,062	53,065
South Dakota	--	--	--	--	--	--	(a)	(a)	(a)	(a)	3	4	14	19	19	19	24	24
Tennessee	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	35	35	34	27	30	40	39	38
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934	196,396	197,659	198,070	199,119
Utah	--	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	225	519	697	796	795	852	835	840
Virginia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	4	6	7	5	5	5	6	8
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560	12,762	12,880	13,044	13,205
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475	7,880	7,581	7,611	8,019
Other	140	160	190	230	270	297	333	364	366	422	--	1	1	1	--	--	--	--
U.S. Federal Waters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	426,280	437,880	448,680	465,870	474,930	488,520	498,940	511,200	524,010	551,170	569,273	574,905	583,141	591,158	594,917	596,385	588,657	588,225

See notes and sources at end of table

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	518	524	532	546	550	562	556	544	586	582	608	633	631	648	660	684	692	719
Alaska	57	72	94	163	183	202	173	193	192	199	205	181	298	348	396	443	700	760
Arizona	10	6	20	22	29	28	30	28	28	25	28	27	29	34	35	31	35	36
Arkansas	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529	7,756	7,866	8,115	8,104	8,249	8,629
California	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534	43,525	43,375	43,838	45,086	47,362	47,231
Colorado	1,938	2,371	1,730	1,825	1,811	1,770	1,785	1,897	2,004	2,174	2,450	2,827	3,027	3,260	3,450	3,490	2,898	3,113
Florida	38	42	41	44	45	60	78	142	147	136	143	143	140	111	115	121	117	123
Illinois	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527	23,752	23,900	24,067	24,871	26,100	27,600
Indiana	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891	5,076	5,296	5,452	5,452	5,715	6,047
Kansas	47,354	46,016	47,597	45,145	44,665	43,490	42,180	41,055	41,520	41,755	41,945	42,240	42,450	42,900	43,200	48,037	42,402	46,189
Kentucky	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970	14,046	14,097	14,172	14,539	14,585	15,109
Louisiana	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274	23,881	24,500	24,767	26,014	25,320	22,380
Michigan	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770	3,903	3,890	3,890	4,900	4,417	4,536
Mississippi	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212	2,806	2,956	3,263	3,676	3,154	2,640
Missouri	142	150	146	128	164	126	139	137	135	157	163	173	175	167	251	258	421	499
Montana	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309	3,330	3,400	3,661	3,618	3,968	4,311
Nebraska	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291	1,382	1,469	1,551	1,693	1,870	2,006
Nevada	9	10	13	13	11	9	6	6	6	9	6	12	18	16	20	20	(a)	(a)
New Mexico	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939	14,338	17,453	21,526	15,103	16,289	16,526
New York	12,304	11,832	4,712	4,201	5,263	5,861	5,860	5,427	5,200	5,475	4,975	5,100	4,800	5,039	5,100	5,220	5,300	5,320
North Dakota	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568	1,608	2,305	2,624	2,938	2,570	2,870
Ohio	13,947	14,192	14,638	15,480	15,737	15,860	14,771	15,222	15,236	16,658	16,611	16,761	17,338	18,289	19,596	21,132	22,441	24,752
Oklahoma	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543	73,752	75,308	76,505	81,296	82,639	91,745
Pennsylvania	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805	28,400	27,768	27,925	25,991	26,138	25,285
South Dakota	28	29	28	27	26	26	33	29	27	31	38	43	69	85	94	97	120	130
Tennessee	33	32	33	32	35	59	78	73	67	154	172	215	283	311	351	435	489	650
Texas	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546	163,746	166,365	169,826	175,673	180,627	187,626
Utah	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188	1,448	1,291	1,560	1,714	1,543	1,583
Virginia	6	2	4	5	5	5	1	1	--	3	7	7	4	5	7	8	(a)	(a)
West Virginia	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800	13,900	14,100	14,250	14,425	14,700	14,900
Wyoming	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052	11,123	10,200	11,128	12,648	11,574	11,792
Other	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	39	50
U.S. Federal Waters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,535	4,985
Total	589,203	583,302	565,289	553,920	542,227	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752	531,395	547,717	557,009	580,142

See notes and sources at end of table

Producing Oil Wells in the United States by State
(As of December 31)

STATE	1983	1984	1985	1986	1987	1988	1989	1990	1991
Alabama	741	759	810	844	875	892	931	872	888
Alaska	672	640	977	1,109	1,216	1,305	1,337	1,466	1,561
Arizona	34	31	28	24	23	20	25	22	22
Arkansas	8,370	9,490	9,700	10,047	8,398	7,865	7,865	7,265	8,450
California	47,197	48,541	49,874	43,717	45,694	45,819	43,745	43,375	43,501
Colorado	4,591	5,360	5,457	5,502	5,642	6,286	6,362	6,596	5,818
Florida	137	138	149	114	122	109	101	83	90
Illinois	28,967	30,045	31,100	32,025	32,307	32,262	32,441	31,874	32,255
Indiana	6,465	6,792	7,164	7,610	7,449	7,449	7,543	7,506	7,517
Kansas	49,348	49,198	51,888	48,816	48,051	47,484	44,969	45,470	48,628
Kentucky	15,562	19,980	21,844	22,639	22,974	22,883	22,859	22,741	22,769
Louisiana	23,376	24,508	26,354	29,921	29,758	27,079	22,872	23,812	23,612
Michigan	4,913	4,881	5,143	4,885	4,996	4,866	5,557	4,570	4,508
Mississippi	2,727	2,562	3,468	2,235	2,143	2,050	3,589	2,169	1,892
Missouri	552	557	581	450	200	286	807	854	846
Montana	4,675	4,201	4,196	3,933	4,050	4,128	4,001	3,846	3,750
Nebraska	2,100	2,095	2,091	1,838	1,852	1,824	1,787	1,440	1,751
Nevada	(a)	37	45	29	35	38	46	46	50
New Mexico	17,409	18,146	18,697	18,409	18,401	17,890	17,787	18,546	17,638
New York	5,432	4,678	4,811	4,632	4,428	4,245	4,350	4,043	3,893
North Dakota	3,734	3,404	3,697	3,543	3,474	3,511	3,442	3,546	3,486
Ohio	26,287	26,878	27,975	29,937	30,013	30,134	30,194	30,089	30,042
Oklahoma	95,868	99,600	102,342	100,261	101,745	97,685	96,344	81,667	101,438
Pennsylvania	24,657	20,739	24,000	20,000	14,271	28,000	27,218	22,338	21,727
South Dakota	140	138	165	148	149	151	156	149	154
Tennessee	693	775	798	806	648	720	713	736	736
Texas	195,595	203,664	209,040	201,272	198,163	198,008	186,226	188,829	192,459
Utah	1,634	1,799	1,944	1,858	1,785	1,849	2,234	1,972	2,132
Virginia	(a)	(a)	28	32	29	29	20	25	25
West Virginia	15,300	15,475	15,895	15,750	15,850	15,950	15,940	15,950	16,000
Wyoming	11,349	11,561	12,038	11,879	10,953	11,850	11,539	11,397	11,620
Other	55	31	0	0	0	0	0	0	0
U.S. Federal Waters	4,710	4,104	4,327	4,425	4,487	4,526	3,881	4,468	4,552
Total	603,290	620,807	646,626	628,690	620,181	627,193	606,881	587,762	613,810

(a) Included in Other.

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991: World Oil Magazine, Forecast Review Issue, February

Producing Oil Wells by State and by Type
(As of December 31)

	1947		1948		1949		1950		1951		1952		1953	
State	Flow-ing	Artificial Lift	Flow-ing	Artificial Lift	Flow-ing	Artificial Lift	Flow-ing	Artificial Lift	Flow-ing	Artificial Lift	Flow-ing	Artificial Lift	Flow-ing	Artificial Lift
Alabama	0	33	0	33	0	39	0	58	0	75	4	92	2	110
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	378	2,992	340	3,040	291	3,076	361	3,266	312	3,329	350	3,578	336	3,699
California	2,363	22,792	2,136	24,413	2,373	22,127	2,143	25,963	1,934	27.656	1,866	29,005	1,834	29,950
Colorado	127	411	113	611	87	662	191	572	135	700	85	886	132	1,098
Florida	4	1	5	3	5	6	1	11	1	11	1	11	0	12
Illinois	68	28,405	58	30,261	71	31,169	16	33,113	12	32,873	7	33,727	5	34,417
Indiana	2	2,807	18	3,252	35	3,739	12	3,946	18	4,222	22	4,473	9	4,825
Kansas	85	26,846	143	24,975	62	29,033	73	30,093	45	31,215	58	32,018	42	33,272
Kentucky	0	14,509	0	14,554	0	14,895	5	15,260	36	15,524	0	15,806	0	16,234
Louisiana	3,168	4,516	3,367	5,508	3,320	6,689	3,477	7,667	3,417	8,106	3,591	8,770	4,354	8,583
Michigan	276	3,356	296	3,131	387	3,268	141	3,577	155	3,730	134	3,858	123	3,863
Mississippi	416	636	495	737	476	886	280	1,168	126	1,466	206	1,504	307	1,536
Missouri	0	36	0	48	0	88	0	46	0	43	0	70	0	91
Montana	24	2,455	24	3,140	39	2,865	20	3,086	22	3,188	30	3,286	51	3,421
Nebraska	0	55	0	46	0	62	35	107	27	181	2	221	0	302
Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	3,636	1,395	3,288	2,004	3,014	2,509	3,232	2,597	3,283	2,768	3,462	3,141	3,644	3,606
New York	0	23,000	0	23,000	0	23,400	0	23,200	0	23,100	0	23,000	0	23,000
North Dakota	0	0	0	0	0	0	0	0	2	0	68	17	179	73
Ohio	50	22,825	65	22,945	60	21,740	50	19,750	50	18,450	40	19,410	70	19,400
Oklahoma	1,485	50,405	1,380	51,731	1,426	52,934	1,740	55,086	1,605	56,715	1,485	58,762	2,120	60,956
Pennsylvania	0	82,800	0	84,000	0	82,100	0	82,200	0	81,200	0	81,200	0	80,500
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tennessee	0	22	0	29	0	35	0	36	0	34	0	35	0	29
Texas	37,070	67,909	37,970	71,673	39,203	76,280	41,949	81,322	44,016	86,293	45,784	90,615	45,976	94,884
Utah	0	0	2	1	22	0	3	30	4	38	10	51	3	66
Virginia	0	12	0	15	0	15	0	15	0	15	0	25	0	25
Washington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	17,000	0	16,200	0	15,900	0	15,200	0	14,600	0	14,200	0	13,600
Wyoming	247	3,905	336	4,222	464	4,452	323	4,887	313	5,292	242	4,614	278	4,841
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	49,399	379,123	50,036	389,572	51,335	397,969	54,052	412,256	55,513	420,824	57,447	432,375	59,465	442,394

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1954		1955		1956		1957		1958		1959		1960	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	5	108	11	102	62	97	35	181	27	227	29	244	0	380
Alaska	0	0	0	0	0	0	0	0	1	0	5	0	18	0
Arizona	0	0	0	0	0	0	0	0	0	0	1	0	2	1
Arkansas	270	3,925	410	4,057	382	4,419	246	5,173	232	5,417	178	5,881	183	5,810
California	1,770	31,303	1,759	32,571	1,599	34,625	1,496	35,756	1,290	35,170	1,115	36,101	1,196	36,388
Colorado	97	1,633	345	1,784	433	1,724	572	1,612	573	1,625	382	1,701	127	1,892
Florida	0	13	0	11	0	11	0	11	0	11	0	11	0	11
Illinois	10	35,155	27	36,758	29	37,689	213	37,828	231	38,366	128	38,736	67	38,239
Indiana	3	4,954	23	5,011	19	5,160	300	4,816	173	5,094	169	5,303	86	5,381
Kansas	31	34,523	121	35,452	127	36,986	103	38,466	131	39,133	243	39,921	312	46,270
Kentucky	0	16,593	12	17,008	21	17,681	19	18,238	8	18,982	19	21,137	13	20,733
Louisiana	4,937	9,588	5,855	10,817	6,998	11,737	7,991	12,224	8,537	13,176	9,280	13,805	8,896	14,389
Michigan	190	3,842	550	3,689	550	3,453	615	3,397	41	4,198	59	4,332	850	3,704
Mississippi	319	1,547	497	1,617	628	1,801	327	2,005	352	2,087	383	2,236	277	2,347
Missouri	0	89	0	97	0	130	0	120	0	119	0	95	0	121
Montana	110	3,641	311	3,587	512	3,516	585	3,261	407	3,210	331	3,375	33	3,478
Nebraska	0	547	31	932	19	1,602	87	1,616	26	1,320	21	1,473	15	1,627
Nevada	0	1	0	3	0	3	0	2	0	2	0	2	0	2
New Mexico	3,710	3,656	3,502	4,727	3,563	5,424	4,259	5,809	3,972	6,839	4,530	7,657	5,323	7,261
New York	0	22,500	0	22,300	0	21,300	0	19,200	0	19,765	0	19,275	0	19,000
North Dakota	353	88	444	92	458	313	543	395	503	640	392	988	74	1,343
Ohio	90	15,210	80	14,660	75	14,745	130	14,700	175	14,850	160	14,768	150	14,560
Oklahoma	2,860	64,551	3,180	71,430	2,773	73,019	2,264	75,623	2,771	76,981	2,987	78,128	3,147	80,459
Pennsylvania	0	80,000	0	78,500	0	76,500	0	69,700	0	68,050	0	67,580	10	65,000
South Dakota	0	2	0	3	0	3	0	3	1	3	0	11	0	19
Tennessee	0	44	0	25	0	40	0	35	0	31	0	30	0	27
Texas	47,032	100,712	47,669	108,811	48,513	117,473	48,098	125,861	47,897	131,781	47,366	138,298	45,722	143,789
Utah	1	81	2	68	23	87	129	210	307	241	346	317	352	404
Virginia	0	25	0	25	0	20	0	0	0	0	0	0	0	8
Washington	0	0	0	0	0	0	2	0	1	0	1	0	1	0
West Virginia	0	13,000	0	12,500	0	12,000	0	12,700	0	12,740	0	12,885	0	12,950
Wyoming	368	5,321	535	5,681	473	5,959	513	6,074	467	6,334	489	6,629	413	7,117
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	62,156	452,651	65,364	472,318	67,257	487,517	68,527	495,016	68,123	506,392	68,614	520,919	67,267	532,710

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1961		1962		1963		1964		1965		1966		1967	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	0	414	0	447	0	499	0	479	0	530	0	520	4	529
Alaska	45	0	50	2	48	7	37	17	25	35	42	15	70	19
Arizona	0	4	0	13	0	5	0	10	6	4	6	4	(a)	(a)
Arkansas	190	6,267	543	5,301	160	5,239	150	5,950	212	5,730	104	5,453	197	6,237
California	1,033	37,203	1,213	37,980	1,251	39,099	1,270	39,510	1,204	40,323	1,176	40,516	1,026	40,597
Colorado	115	1,864	110	1,865	72	1,888	58	1,832	61	1,771	42	1,649	37	1,773
Florida	0	11	0	11	0	12	0	16	2	36	0	41	(a)	(a)
Illinois	74	39,381	0	30,196	0	30,114	0	29,319	0	29,012	20	28,550	0	27,874
Indiana	84	5,792	0	5,887	0	5,937	0	5,949	0	4,149	0	4,149	0	3,637
Kansas	270	46,920	275	47,286	278	47,587	300	48,700	300	46,200	300	40,622	400	45,925
Kentucky	15	20,746	0	19,800	0	19,000	0	15,726	0	15,600	0	16,000	500	13,500
Louisiana	9,420	14,612	10,951	14,691	11,692	16,037	12,401	17,260	12,982	17,921	12,338	18,546	12,435	18,511
Michigan	931	3,413	832	3,538	915	3,188	915	3,660	890	3,153	800	3,204	777	3,291
Mississippi	289	2,408	525	2,035	554	2,139	342	2,238	354	2,159	362	2,187	348	2,172
Missouri	0	120	0	111	0	118	0	87	0	100	0	142	(a)	(a)
Montana	33	3,404	41	3,659	36	3,552	34	3,960	46	3,677	11	3,582	38	3,724
Nebraska	18	1,967	0	1,855	5	1,769	5	1,733	5	1,614	0	1,493	4	1,457
Nevada	0	2	0	2	0	4	0	5	0	9	0	10	(a)	(a)
New Mexico	4,880	8,857	5,324	8,909	4,861	9,003	4,814	9,828	4,682	9,753	3,499	10,798	3,645	10,712
New York	0	18,000	0	13,500	0	13,100	0	12,800	0	11,700	100	12,200	100	12,000
North Dakota	92	1,453	567	1,015	600	1,206	453	1,428	524	1,439	315	1,718	250	1,513
Ohio	145	14,305	150	14,350	80	14,525	50	13,683	60	13,873	50	14,133	50	14,240
Oklahoma	3,775	81,048	3,750	77,795	3,840	77,686	3,857	76,602	3,800	76,200	4,000	77,477	4,000	76,971
Pennsylvania	0	61,896	0	56,900	20	55,360	22	53,043	18	52,713	75	50,570	50	45,376
South Dakota	0	24	0	18	0	24	0	24	0	29	0	29	(a)	(a)
Tennessee	0	30	0	30	0	40	0	41	0	42	0	34	(a)	(a)
Texas	44,936	147,587	44,202	149,526	42,218	152,251	40,481	154,088	39,052	155,618	36,160	155,281	33,060	155,761
Utah	349	602	320	500	318	520	15	926	9	852	10	861	15	981
Virginia	0	8	0	5	0	6	0	6	0	7	0	2	(a)	(a)
Washington	1	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	0	12,350	0	12,800	0	13,000	0	13,200	0	13,400	0	13,300	0	14,250
Wyoming	408	7,417	400	9,000	455	7,459	450	7,481	400	7,594	422	8,012	456	8,091
Other	--	--	--	--	--	--	--	--	0	0	0	0	3	263
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	67,103	538,105	69,253	519,027	67,403	520,374	65,654	519,601	64,632	515,243	59,832	511,098	57,465	509,404

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1968		1969		1970		1971		1972		1973		1974	
	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	5	542	7	467	8	468	14	524	27	499	44	510	35	384
Alaska	93	86	58	135	41	120	53	130	58	139	52	140	42	186
Arizona	0	(a)	0	0	(a)	(a)	0	29	1	22	1	22	0	28
Arkansas	83	5,896	106	6,012	100	6,100	60	7,066	69	7,168	96	6,328	123	6,993
California	1,428	40,103	1,390	39,505	1,350	37,718	1,300	39,298	421	39,865	496	42,847	453	39,777
Colorado	33	1,782	30	1,748	37	1,733	50	1,845	110	1,709	134	1,721	119	1,921
Florida	0	(a)	0	0	(a)	(a)	8	65	68	67	81	64	63	70
Illinois	0	27,242	0	26,737	0	26,298	0	25,369	0	24,736	0	24,307	0	23,718
Indiana	0	3,621	0	3,646	0	3,607	0	3,600	0	4,379	0	4,323	0	4,376
Kansas	400	44,755	350	44,390	350	44,315	325	41,960	325	40,730	319	42,181	275	41,480
Kentucky	609	13,000	532	13,220	502	14,000	557	14,100	560	14,056	100	14,316	0	14,129
Louisiana	11,018	19,015	10,756	18,861	9,064	19,214	7,534	18,216	7,388	19,208	6,203	21,666	6,545	21,428
Michigan	686	3,587	551	3,821	677	3,196	650	3,200	668	3,129	659	3,082	682	3,132
Mississippi	328	2,271	303	2,245	290	2,276	300	2,255	275	2,298	202	2,108	180	2,074
Missouri	0	(a)	0	0	(a)	(a)	0	139	0	138	0	135	0	137
Montana	14	3,252	25	3,460	3	3,159	23	3,707	19	3,196	3	3,533	7	3,021
Nebraska	3	1,404	2	1,369	6	1,299	4	1,190	4	1,176	0	1,118	0	1,109
Nevada	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
New Mexico	3,277	11,106	3,186	11,152	3,198	11,075	2,388	10,997	2,386	11,048	2,300	11,138	2,143	11,139
New York	0	11,500	0	9,500	0	5,000	0	5,860	0	5,500	0	5,400	0	5,475
North Dakota	224	1,503	495	1,155	229	1,506	263	1,453	225	1,340	224	1,237	243	1,245
Ohio	60	14,347	80	14,584	60	14,727	50	14,581	295	14,491	304	14,847	302	14,847
Oklahoma	4,000	76,999	4,000	76,947	4,000	74,212	4,000	71,549	4,000	69,807	3,943	69,082	3,879	67,969
Pennsylvania	50	35,950	50	33,950	70	30,555	70	29,731	80	26,949	75	32,521	75	30,825
South Dakota	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
Tennessee	0	(a)	0	0	(a)	(a)	12	59	16	40	6	61	31	56
Texas	31,525	152,452	28,934	149,837	26,199	146,014	24,305	149,902	22,680	148,689	19,998	139,314	20,063	140,011
Utah	15	881	15	867	23	884	46	828	87	812	82	1,362	230	989
Virginia	0	(a)	0	0	(a)	(a)	0	(a)	0	(a)	(a)	(a)	(a)	(a)
Washington	0	0	0	0	0	0	0	(a)	0	(a)	(a)	(a)	(a)	(a)
West Virginia	0	14,000	0	13,800	0	13,700	0	13,500	0	13,530	0	13,600	0	13,650
Wyoming	527	8,396	687	8,386	700	8,800	650	8,600	600	8,350	535	7,107	606	8,050
Other	0	263	0	289	21	273	0	36	0	72	10	31	9	28
U.S. Federal Waters	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	54,378	493,953	51,557	486,083	46,928	470,249	42,662	469,809	40,362	463,143	35,867	464,101	36,105	458,247

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

	1975		1976		1977		1978		1979		1980		1981	
State	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift	Flowing	Artificial Lift
Alabama	36	530	40	593	40	597	55	575	57	457	57	612	103	589
Alaska	36	164	38	152	135	156	188	178	240	160	412	230	296	404
Arizona	0	28	0	27	0	28	0	31	0	35	0	32	0	35
Arkansas	125	6,947	140	7,072	155	7,348	197	7,356	202	7,496	140	7,964	156	8,093
California	370	40,569	496	44,287	481	42,973	517	44,482	1,635	43,039	1,667	43,924	1,592	45,770
Colorado	108	2,232	111	2,265	213	2,832	226	3,001	183	3,219	188	3,302	151	2,747
Florida	72	72	66	78	144	0	50	65	43	72	40	80	42	75
Illinois	0	23,360	0	23,509	0	23,828	0	23,869	0	24,067	0	24,745	0	26,100
Indiana	0	4,380	0	4,798	0	4,891	0	5,076	0	5,296	0	5,452	0	5,715
Kansas	250	41,695	200	42,050	200	42,250	204	43,054	223	47,156	60	47,397	42	42,360
Kentucky	0	14,231	0	13,970	0	14,046	0	14,149	0	14,097	0	14,517	0	14,585
Louisiana	5,979	21,755	6,128	20,272	2,228	21,653	2,244	22,256	4,251	20,516	4,226	21,788	3,871	21,449
Michigan	548	3,107	608	3,162	603	3,300	547	3,343	547	3,343	585	3,524	631	3,786
Mississippi	160	2,077	149	2,063	152	2,108	88	2,166	91	2,465	120	2,511	144	3,010
Missouri	0	157	0	145	0	161	0	161	0	188	20	238	0	421
Montana	7	3,143	12	3,298	70	3,284	328	2,947	375	3,198	325	3,303	375	3,593
Nebraska	0	1,127	0	1,292	0	1,369	0	1,455	0	1,535	4	1,675	0	1,870
Nevada	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
New Mexico	2,255	11,395	2,313	11,533	2,405	11,860	2,144	12,254	2,723	12,322	2,565	13,181	2,986	13,303
New York	0	4,975	0	5,000	0	4,800	0	4,900	0	4,800	0	5,000	0	5,300
North Dakota	236	1,248	269	1,302	297	1,341	358	1,374	404	1,504	554	1,736	622	1,948
Ohio	288	14,877	310	15,143	347	17,016	362	17,735	384	18,793	409	20,042	447	21,994
Oklahoma	4,089	67,568	4,131	68,257	4,203	69,450	4,247	70,623	4,345	72,160	4,332	74,131	4,563	78,076
Pennsylvania	50	32,200	65	32,000	50	28,755	50	28,350	56	27,712	56	27,869	52	26,086
South Dakota	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	3	85	3	115	0	120
Tennessee	55	94	75	122	115	157	119	160	144	194	106	335	117	372
Texas	18,584	152,462	16,997	143,678	16,168	147,647	16,109	149,708	16,665	151,458	16,571	157,940	17,351	163,276
Utah	121	935	100	1,088	369	494	552	739	576	770	436	1,042	419	1,124
Virginia	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
Washington	(a)	(a)	(a)	(a)	(a)	(a)	0	(a)	0	(a)	0	(a)	0	(a)
West Virginia	0	13,750	0	13,800	0	13,900	0	14,100	0	14,225	0	14,425	0	14,700
Wyoming	662	8,788	720	9,307	725	9,378	718	9,293	724	9,335	736	9,491	833	10,741
Other	9	28	1	17	13	74	0	106	0	28	0	31	0	39
U.S. Federal Waters	--	--	--	--	2,702	829	2,624	805	915	2,344	917	2,349	3,267	1,268
U.S. Total	34,040	473,900	32,969	470,299	31,815	476,525	31,927	484,311	34,786	492,069	34,529	508,981	38,060	518,949

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1982 Flowing	1982 Artificial Lift	1983 Flowing	1983 Artificial Lift	1984 Flowing	1984 Artificial Lift	1985 Flowing	1985 Artificial Lift	1986 Flowing	1986 Artificial Lift	1987 Flowing	1987 Artificial Lift	1988 Flowing	1988 Artificial Lift
Alabama	122	597	102	639	50	709	91	719	102	742	68	807	91	801
Alaska	330	430	406	266	370	270	481	496	591	518	621	595	654	651
Arizona	0	36	0	34	0	31	0	28	0	24	0	23	0	20
Arkansas	173	8,456	168	8,202	189	9,301	195	9,505	201	9,846	185	8,213	150	7,715
California	1,470	45,761	1,482	45,715	1,423	47,118	1,455	48,419	1,419	42,298	1,210	44,484	1,074	44,745
Colorado	218	2,895	304	4,287	571	4,789	491	4,966	490	5,012	491	5,151	534	5,752
Florida	50	73	62	75	57	81	67	82	46	68	57	65	51	58
Illinois	0	27,600	0	28,967	0	28,920	0	31,100	0	32,025	0	32,307	0	32,262
Indiana	0	6,047	0	6,465	0	6,792	0	7,164	0	7,610	0	7,449	0	7,449
Kansas	46	46,143	53	49,295	49	49,149	75	51,813	73	48,743	70	47,981	65	47,419
Kentucky	0	15,109	0	15,562	0	19,980	0	21,844	0	22,639	0	22,974	0	22,883
Louisiana	2,001	20,379	2,110	21,266	2,168	22,340	2,285	23,538	2,205	22,430	2,356	27,402	2,205	24,874
Michigan	636	3,900	663	4,250	749	4,132	600	4,525	635	4,250	652	4,344	630	4,236
Mississippi	132	2,508	135	2,592	259	2,303	116	3,352	179	2,056	188	1,955	207	1,843
Missouri	0	499	0	552	0	557	0	581	0	450	0	200	0	286
Montana	350	3,961	400	4,275	424	4,292	378	3,818	362	3,571	364	3,686	375	3,753
Nebraska	0	2,006	0	2,100	0	2,095	0	2,091	0	1,838	0	1,852	0	1,824
Nevada	0	(a)	0	(a)	(a)	(a)	4	41	6	23	3	32	7	31
New Mexico	3,068	13,458	3,161	14,248	3,303	14,843	3,444	15,253	3,403	15,006	3,460	14,941	3,261	14,629
New York	0	5,320	7	5,425	28	4,650	20	4,791	10	4,622	10	4,418	3	4,242
North Dakota	800	2,070	717	3,017	830	2,574	927	2,770	641	2,902	599	2,875	592	2,919
Ohio	470	24,282	523	25,764	535	26,343	556	27,419	386	29,551	387	29,626	389	29,745
Oklahoma	5,046	86,699	4,794	91,074	4,980	94,620	5,150	97,850	5,013	95,248	5,087	96,658	4,886	92,799
Pennsylvania	52	25,233	47	24,610	0	20,739	0	24,000	0	20,000	0	14,271	0	28,000
South Dakota	0	130	0	140	0	138	0	165	0	148	0	149	0	151
Tennessee	120	530	126	567	139	636	137	661	0	806	0	648	0	720
Texas	16,170	171,456	15,182	180,413	15,216	188,448	16,247	192,793	14,147	187,125	13,220	184,943	13,253	184,755
Utah	396	1,187	388	1,246	360	1,439	389	1,555	372	1,486	365	1,420	346	1,506
Virginia	0	(a)	0	(a)	(a)	(a)	(a)	(a)	0	32	0	29	1	28
Washington	0	(a)	0	(a)	(a)	(a)	(a)	(a)	0	0	0	0	0	0
West Virginia	0	14,900	0	15,300	0	15,475	0	15,895	0	15,750	0	15,850	0	15,950
Wyoming	825	10,967	794	10,555	809	10,752	831	11,207	784	11,095	788	10,165	805	11,045
Other	1	49	0	55	5	63	0	28	0	0	0	0	0	0
U.S. Federal Waters	3,589	1,396	1,370	3,340	3,590	514	3,726	601	4,083	342	2,689	1,798	2,921	1,605
U.S. Total	36,065	544,077	32,994	570,296	36,104	584,093	37,665	609,070	35,148	588,256	32,870	587,311	32,500	594,696

See notes and sources at end of table

Producing Oil Wells by State and by Type
(As of December 31)

State	1989 Flow-ing	1989 Artificial Lift	1990 Flow-ing	1990 Artificial Lift	1991 Flow-ing	1991 Artificial Lift
Alabama	85	846	66	806	73	815
Alaska	698	639	767	699	751	810
Arizona	0	25	0	22	0	22
Arkansas	150	4,190	100	7,165	100	8,350
California	1,534	42,211	993	42,382	813	42,688
Colorado	541	5,821	666	5,930	588	5,230
Florida	59	42	41	42	53	37
Illinois	0	32,441	0	31,874	0	32,255
Indiana	0	7,543	0	7,506	0	7,517
Kansas	58	44,911	59	45,411	0	48,628
Kentucky	0	22,859	0	22,741	0	22,769
Louisiana	2,008	20,864	2,001	21,811	1,970	21,642
Michigan	1,338	4,219	605	3,965	603	3,905
Mississippi	363	3,226	221	1,948	140	1,752
Missouri	0	807	0	854	0	846
Montana	363	3,638	349	3,497	340	3,410
Nebraska	0	1,787	0	1,440	0	1,751
Nevada	10	36	8	38	7	43
New Mexico	3,170	14,617	3,110	15,436	3,080	14,558
New York	1	4,349	1	4,042	1	3,892
North Dakota	543	2,899	536	3,010	424	3,062
Ohio	400	29,794	375	29,714	350	29,692
Oklahoma	4,817	91,527	4,080	77,587	11,438	90,000
Pennsylvania	0	27,218	0	22,338	0	21,727
South Dakota	0	156	0	149	0	154
Tennessee	0	713	0	736	0	736
Texas	12,548	173,678	11,742	177,087	14,953	177,506
Utah	112	2,122	99	1,873	107	2,025
Virginia	0	20	0	25	0	25
Washington	0	0	0	0	0	0
West Virginia	0	15,940	0	15,950	0	16,000
Wyoming	863	10,676	850	10,547	867	10,753
Other	0	0	0	0	0	0
U.S. Federal Waters	2,292	1,589	2,817	1,651	2,959	1,593
U.S. Total	31,953	571,403	29,486	558,276	39,617	574,193

(a) Included in other.

SOURCE: World Oil Magazine, February issue.

United States Stripper Wells by State
(As of January 1)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	0	0	14	39	44	75	71	78	69	78	68	73	92	95	98	100	124
Arizona	0	2	2	1	4	6	7	7	7	8	10	12	14	17	14	14	16
Arkansas	5,997	5,961	6,203	6,201	6,094	6,100	6,025	6,736	6,822	6,767	6,820	5,847	5,167	7,218	4,738	4,942	4,416
California	21,395	23,753	31,391	31,466	34,559	32,124	29,983	28,328	24,198	25,957	25,400	26,566	26,354	26,358	26,650	29,230	29,044
Colorado	740	774	807	867	818	881	942	990	1,016	1,074	1,143	1,255	1,354	1,861	1,690	1,798	4,269
Illinois	26,095	25,202	24,363	23,960	23,279	23,222	23,275	23,499	23,622	23,860	24,501	25,472	26,813	28,566	29,942	30,593	31,649
Indiana	7,246	6,995	7,570	4,251	3,962	4,654	4,853	5,056	5,038	5,092	5,022	5,874	5,353	5,854	6,134	5,457	5,165 (a)
Kansas	40,513	39,552	39,853	40,176	40,105	40,597	41,764	42,273	43,154	44,686	41,876	42,924	44,521	47,592	45,749	48,235	50,182
Kentucky	14,615	14,585	14,511	14,201	13,914	13,690	13,817	14,046	13,953	14,028	14,075	14,130	14,275	17,000	16,433	17,674	17,992
Louisiana	12,561	12,318	12,907	12,649	12,808	12,723	13,185	13,189	13,600	12,131	15,889	15,950	12,010	16,500	16,500	16,000	15,500
Michigan	3,555	3,392	3,389	3,356	3,370	3,330	3,260	3,276	3,331	3,405	3,325	3,057	3,361	3,367	3,500	3,475	3,285 (a)
Mississippi	344	313	211	217	278	310	617	654	657	813	1,523	2,138	1,923	837	837	811	681 (a)
Missouri	126	139	137	137	157	163	173	161	144	157	301	440	530	548	548	429	388
Montana	1,951	1,311	1,186	1,295	1,338	1,873	1,918	1,945	1,983	1,996	2,082	2,058	2,243	2,673	3,085	3,376	3,493
Nebraska	437	484	417	526	577	638	812	919	987	1,037	1,223	1,414	1,585	1,672	1,707	1,716	1,637
New Mexico	9,058	9,143	9,122	9,458	9,991	10,274	10,544	10,956	11,401	11,829	12,519	13,226	13,882	14,280	14,749	15,199	14,466
New York	5,861	5,522	5,528	5,282	4,828	5,231	4,916	4,913	4,700	5,000	5,220	5,345	5,259	4,228	4,532	4,448	4,309
North Dakota	679	721	749	635	529	569	655	687	741	782	878	836	959	922	1,016	1,091	1,106
Ohio	14,447	14,653	14,863	14,906	15,406	15,482	15,586	16,122	17,006	18,222	19,650	21,982	22,966	24,263	25,129	26,412	28,652
Oklahoma	55,718	54,712	54,788	57,000	59,817	58,736	53,357	56,239	59,971	64,893	66,128	69,781	73,328	77,729	82,431	83,034	84,425
Pennsylvania	36,801	34,029	32,596	31,539	32,095	31,661	31,274	28,400	27,768	27,925	25,991	25,285	23,438	21,831	19,540	11,877	14,271
South Dakota	0	11	12	12	8	9	10	16	11	10	12	23	33	33	30	24	17
Tennessee	44	46	41	53	99	133	159	213	265	318	387	398	NA	716	689	952	848
Texas	85,117	84,950	83,666	82,302	87,412	89,027	91,498	92,887	96,713	98,487	103,594	107,596	111,671	117,178	126,202	130,311	123,796
Utah	37	44	53	84	74	48	77	74	95	106	125	196	NA	217	348	519	853
Virginia	3	3	1	0	3	7	7	4	5	7	8	12	20	26	32	30	49
West Virginia	13,150	13,270	13,375	13,500	13,600	13,680	13,800	13,875	13,925	14,000	14,150	14,300	14,550	14,900	15,200	15,500	15,800
Wyoming	2,640	1,811	1,716	1,116	926	2,629	3,148	3,387	3,453	3,642	3,252	3,349	4,792	5,020	5,020	5,200	3,996
Total	359,130	353,696	359,471	355,229	366,095	367,872	365,733	368,930	374,635	386,310	395,172	409,539	416,493	441,501	452,543	458,447	460,429

See notes and sources at end of table

United States Stripper Wells by State
(As of January 1)

State	1988	1989	1990	1991
Alabama	122	148	498	514
Arizona	15	13	13	12
Arkansas	4,438	7,597	7,428	7,290
California	26,988	26,527	25,828	26,128
Colorado	5,097	5,069	6,357	5,234
Illinois	31,883	32,358	34,417	33,700
Indiana	4,985 (a)	6,171	6,281	5,764
Kansas	51,953	46,720	45,559	45,227
Kentucky	18,073	18,306	19,358	19,330
Louisiana	15,000	16,500	14,788	17,695
Michigan	3,015 (a)	3,040	3,110 (a)	3,967 (a)
Mississippi	644	606	561	615
Missouri	289	700	668	375
Montana	3,300	3,267	3,116	3,084
Nebraska	1,589	1,505	1,247	1,269
New Mexico	14,622	14,723	15,050	15,261
New York	4,221	4,011	3,968	3,748
North Dakota	1,125	1,186	1,180	1,205
Ohio	28,908	29,251	29,634	29,576
Oklahoma	77,154	74,598	70,741	73,345
Pennsylvania	13,255	17,303	22,338	21,800
South Dakota	27	17	24	26
Tennessee	853	934	839	923
Texas	123,945	123,802	119,693	127,790
Utah	824	796	897	1,026
Virginia	51	53	44	22
West Virginia	15,925	15,790	15,970	15,975
Wyoming	3,486	3,159	2,982	2,953
Total	451,787	454,150	452,589	463,854

(a) Estimate.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association, National Stripper Well Survey

United States Stripper Well Abandonments by State
(As of January 1)

State	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	0	0	0	19	1	1	8	2	9	3	14	2	4	1	3	1	2
Arizona	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0
Arkansas	76	76	55	73	99	26	19	17	42	8	3	5	91	39	62	85	110
California	746	1,197	727	1,042	614	695	563	782	881	824	781	1,146	886	578	1,126	1,182	614
Colorado	103	105	141	84	99	75	94	57	42	40	31	37	N.A.	N.A.	36	94	98
Illinois	903	1,096	1,006	644	1,037	766	574	420	400	354	352	303	262	145	629	390	343
Indiana	118	96	108	127	100	154	97	97	44	72	262	201	425	428	366	387	397 (a)
Kansas	1,595	2,433	1,356	1,173	1,900	1,195	753	605	559	541	481	657	1,363	1,583	1,505	1,693	1,584
Kentucky	367	345	366	397	523	534	306	220	252	198	77	86	256	397	393	391	516
Louisiana	385	506	630	562	349	302	310	226	182	134	59	166	160	637	852	1,213	1,326 (a)
Michigan	91	127	95	102	71	51	31	34	47	42	33	61	N.A.	99	107	115	127 (a)
Mississippi	24	34	25	16	22	15	21	29	173	113	58	60	82	86	96	98	103 (a)
Missouri	31	0	0	0	0	13	0	12	17	0	0	3	61	0	N.A.	0	34
Montana	889	200	119	29	11	11	7	7	12	29	28	17	55	N.A.	430	450	75
Nebraska	47	50	50	72	74	9	10	14	59	17	18	11	15	18	36	36	45
New Mexico	856	770	749	691	536	499	443	417	432	448	420	435	621	628	644	721	1,761
New York	629	419	573	544	622	553	442	455	352	117	119	161	249	70	140	226	449 (a)
North Dakota	3	13	78	5	2	4	4	3	6	5	4	4	15	24	12	78	50
Ohio	650	460	369	440	611	446	310	202	171	229	176	164	226	297	354	612	291
Oklahoma	2,705	2,273	1,604	1,737	1,869	1,739	881	793	656	623	596	644	835	1,093	1,491	1,156	1,442
Pennsylvania	1,376	3,824	1,632	1,951	346	434	1,421	1,034	899	1,229	809	733	863	880	848	930	955 (a)
South Dakota	--	0	0	0	4	1	0	1	2	6	3	2	3	4	4	0	4
Tennessee	0	0	12	7	6	9	6	5	13	6	7	11	N.A.	N.A.	0	N.A.	N.A.
Texas	3,860	4,265	3,682	3,884	4,608	5,716	3,177	3,057	2,599	2,268	1,938	1,948	2,920	3,980	4,931	6,015	7,585
Utah	3	6	6	25	26	39	47	56	54	62	10	12	N.A.	24	22	75	89 (a)
Virginia	2	0	0	1	1	0	0	1	0	1	1	0	0	0	3	2	5 (a)
West Virginia	92	80	38	26	124	114	53	13	10	10	10	14	34	20	79	74	24
Wyoming	80	46	62	105	124	77	339	441	467	289	323	331	N.A.	N.A.	N.A.	N.A.	1,204
U.S. TOTAL	15,631	18,421	13,483	13,756	13,779	13,478	9,916	9,000	8,380	7,668	6,614	7,215	9,426	11,032	14,170	16,024	19,233

See notes and sources at end of table

United States Stripper Well Abandonments by State
(As of January 1)

State	1988	1989	1990	1991
Alabama	7	6	8	13
Arizona	0	0	0	1
Arkansas	106	138	169	140
California	875	1,041	1,464	2,563
Colorado	224	218	427	228
Illinois	533	183	295	1,004
Indiana	411 (a)	446	245	318
Kansas	1,521	1,883	1,470	1,704
Kentucky	772	487	443	264
Louisiana	1,267 (a)	1,116	428	411
Michigan	170 (a)	157 (a)	138 (a)	146 (a)
Mississippi	137 (a)	118	120	139
Missouri	51 (a)	46 (a)	41 (a)	42
Montana	140	182	126	98
Nebraska	39	30	43	60
New Mexico	1,000	1,087	882	861
New York	354	290	201	554
North Dakota	55	55	91	47
Ohio	343	442	347	354
Oklahoma	1,779	2,098	2,138	2,008
Pennsylvania	996 (a)	943	1,138	967
South Dakota	1	1	1	0
Tennessee	110	105 (a)	95 (a)	101 (a)
Texas	6,708	5,924	5,422	4,959
Utah	93 (a)	48	73	16
Virginia	1	2	5	0
West Virginia	38	50	34	26
Wyoming	510	327	263	211
U.S. TOTAL	18,241	17,423	16,107	17,235

N.A. = Not Available
(a) Estimate.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association. National Stripper Well Survey

Producing Oil Wells Worldwide
(As of December 31)(a)

COUNTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	386	402	398	394	373	361	378	359	375	370	403	399	435	509	545	746	879
Brunei-Malaysia	592	537	558	126	519	504	574	648	712	819	808	788	843	965	1,017	999	1,080
China	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
India	200	1,545	1,545	1,500	2,500	1,545	1,548	1,600	1,600	1,600	1,600	1,600	1,560	1,560	1,560	2,201	2,201
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018	3,162	3,421	3,644	3,823	3,700	4,077	4,341	4,840	4,840	5,378	5,124
Japan	1,725	2,341	1,078	1,084	1,044	1,009	464	448	542	507	388	382	397	370	348	256	284
TOTAL ASIA-PACIFIC(c)	5,200	7,046	6,692	6,479	6,861	7,156	6,645	7,006	7,407	7,684	7,465	7,843	8,184	8,885	8,992	10,381	10,374
Austria	1,268	1,298	1,270	1,250	1,271	1,291	1,222	1,219	1,250	1,254	1,120	1,164	1,229	1,240	1,243	1,605	1,069
Netherlands	369	351	319	319	347	368	392	393	416	473	480	516	533	623	633	644	663
Norway	0	1	4	4	6	24	29	36	50	50	100	117	131	144	171	178	178
United Kingdom	60	55	56	63	57	77	90	135	109	240	290	361	379	387	535	627	661
West Germany	3,065	3,078	2,833	2,782	2,699	2,699	2,827	2,933	2,933	2,945	2,957	3,004	3,077	3,142	3,136	3,152	3,129
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981	6,109	6,266	5,208	5,421	5,401	5,708	5,978	6,228	6,922	7,509	7,643
USSR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL E. EUROPE/USSR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abu Dhabi	94	98	115	142	160	216	209	232	240	250	341	277	352	222	254	254	392
Iran	266	280	313	350	369	425	428	518	551	547	547	530	530	530	530	361	361
Iraq	113	122	132	133	156	156	170	200	250	250	250	280	280	290	290	NA	NA
Kuwait	741	692	692	692	692	692	596	586	586	590	590	546	530	530	530	572	363
Neutral Zone	450	480	440	362	449	449	476	459	455	423	412	450	445	450	464	493	493
Qatar	69	80	84	92	81	88	77	77	95	95	124	128	125	125	174	174	174
Saudi Arabia	423	425	535	627	670	711	701	754	875	725	733	782	555	555	555	NA	NA
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919	3,007	4,161	4,307	4,381	4,193	4,304	4,639	4,643	4,582	3,797	3,875
Algeria	775	497	524	574	826	984	826	801	989	970	1,000	1,050	1,085	1,090	1,090	NA	NA
Egypt	332	204	245	261	437	319	376	401	430	432	484	450	411	500	617	658	666
Gabon	100	101	114	122	137	184	212	240	211	218	242	250	266	270	270	297	500
Libya	1,083	995	763	895	979	851	877	797	817	896	886	889	891	905	905	671	661
Nigeria	364	570	774	898	1,088	1,052	1,259	1,374	1,322	1,457	1,451	1,491	1,312	1,296	1,177	1,153	1,111
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699	3,804	3,956	4,160	4,372	4,522	4,672	4,565	4,860	4,937	3,708	3,838
Mexico	3,127	3,908	3,412	4,345	3,301	3,285	3,382	3,419	4,145	4,200	3,384	3,593	3,605	3,640	NA	3,209	3,737
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718	10,720	1,932	11,909	12,486	5,042	13,610	14,029	11,604	13,512	10,103	10,103
United States	530,990	517,318	508,443	497,378	497,631	500,333	499,110	507,034	516,752	531,395	547,717	557,009	580,142	636,900	615,500	642,000	639,735
Canada	23,675	22,779	20,911	22,996	21,202	18,573	25,055	26,112	25,800	18,323	20,721	33,404	33,907	36,388	39,146	43,480	50,037
TOTAL WESTERN HEMIS.	582,649	569,172	558,947	551,543	548,894	546,866	574,224	555,034	575,695	583,748	594,741	625,056	650,162	708,342	690,169	721,857	727,218
TOTAL WORLD(b)	598,852	586,949	576,226	570,094	568,806	567,621	593,789	576,423	596,777	605,606	616,322	647,583	673,528	732,958	715,602	747,252	752,948

See notes and sources at end of table

Producing Oil Wells Worldwide
(As of December 31)(a)

COUNTRY	1987	1988	1989	1990
Australia	926	951	1,024	1,607
Brunei-Malaysia	1,056	1,050	1,064	1,087
China	NA	NA	43,700	49,700
India	2,670	1,866	1,944	2,514
Indonesia	6,065	6,470	6,963	7,262
Japan	387	387	368	343
TOTAL ASIA-PACIFIC(c)	12,018	11,654	56,059	63,524
Austria	1,198	987	1,070	1,242
Netherlands	478	289	188	187
Norway	215	223	318	308
United Kingdom	787	755	762	880
West Germany	3,088	2,917	2,883	2,100
TOTAL WESTERN EUROPE	7,199	6,717	6,856	6,425
USSR	NA	NA	145,000	148,900
Yugoslavia	NA	NA	1,671	1,645
TOTAL E. EUROPE/USSR	NA	NA	146,671	150,545
Abu Dhabi	1,001	1,001	1,001	1,001
Iran	361	361	361	361
Iraq	868	820	820	820
Kuwait	363	363	363	363
Neutral Zone	492	501	500	499
Qatar	174	174	174	238
Saudi Arabia	588	588	858	1,235
TOTAL MIDDLE EAST	6,289	6,382	6,827	7,314
Algeria	840	840	840	920
Egypt	821	874	896	907
Gabon	299	312	310	310
Libya	664	678	696	712
Nigeria	1,522	1,513	1,432	1,574
TOTAL AFRICA	5,296	5,411	5,381	5,666
Mexico	3,768	3,768	4,740	4,740
Venezuela	28,101	12,857	12,752	8,425
United States	613,430	612,448	603,365	597,320
Canada	37,882	38,557	38,794	39,159
TOTAL WESTERN HEMIS.	708,710	694,196	688,420	678,302
TOTAL WORLD(b)	739,512	724,360	910,214	911,776

(a) Figures as of July 1 for 1970 through 1986
(b) Total is incomplete because figures for all countries are not available.
NA Not Available

SOURCE: United States: 1970-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1982: World Oil Magazine
1983-1990: Oil and Gas Journal, "Worldwide Report" Issue
Rest of World: 1970-1990: Oil and Gas Journal, "Worldwide Report" Issue.

Historical Number of Wells Drilled in the United States by Type: 1859-1946

Year	Oil	Gas	Dry	Service	Total	Producing Oil Wells at Year-End
1859	1	0	1	0	2	1
1860	201	0	39	0	240	202
1861	190	0	57	0	247	392
1862	322	0	63	0	385	713
1863	488	0	107	0	595	987
1864	951	0	181	0	1,132	1,303
1865	899	0	378	0	1,277	1,611
1866	795	0	347	0	1,142	1,885
1867	789	0	467	0	1,256	2,360
1868	862	0	202	0	1,064	2,946
1869	986	0	696	0	1,682	3,737
1870	1,002	0	637	0	1,639	4,363
1871	1,005	0	447	0	1,452	4,987
1872	768	0	398	0	1,166	5,271
1873	948	0	296	0	1,244	5,607
1874	1,002	0	302	0	1,304	5,958
1875	1,890	0	568	0	2,458	6,973
1876	2,631	0	329	0	2,960	8,960
1877	3,298	0	658	0	3,956	11,551
1878	2,660	0	328	0	2,988	13,536
1879	2,669	0	148	0	2,817	15,521
1880	4,072	0	144	0	4,216	18,634
1881	3,694	0	182	0	3,876	21,168
1882	3,092	0	179	0	3,271	22,258
1883	2,655	84	279	0	3,018	22,365
1884	2,094	1	270	0	2,365	21,083
1885	2,572	4	379	0	2,955	20,753
1886	3,340	0	968	0	4,308	20,963
1887	1,637	0	505	0	2,142	19,425
1888	1,750	45	491	0	2,286	18,453
1889	5,445	133	1,119	0	6,697	21,833
1890	7,342	50	1,439	0	8,831	27,341
1891	4,168	49	990	0	5,207	29,480
1892	3,090	3	785	0	3,878	31,059
1893	3,474	3	799	0	4,276	32,339
1894	6,138	18	1,493	0	7,649	36,841
1895	10,838	8	2,404	0	13,250	45,784
1896	11,219	14	2,784	0	14,017	54,319
1897	7,571	7	2,237	0	9,815	57,591
1898	7,058	16	1,823	0	8,897	61,288
1899	11,630	22	2,701	0	14,353	69,673
1900	13,671	17	3,389	0	17,077	78,745
1901	11,811	10	3,276	0	15,097	85,111
1902	13,019	15	3,440	0	16,474	92,371
1903	15,177	322	3,670	0	19,169	101,182
1904	16,008	449	4,088	0	20,545	110,928
1905	12,601	382	3,583	0	16,566	115,943
1906	14,550	493	3,787	0	18,830	122,590
1907	15,534	555	3,579	0	19,668	133,040
1908	13,210	485	3,214	0	16,909	141,453
1909	13,875	1,048	3,404	0	18,327	146,736

See notes and sources at end of table

Historical Number of Wells Drilled in the United States by Type: 1859-1946

Year	Oil	Gas	Dry	Service	Total	Producing Oil Wells at Year-End
1910	11,018	1,500	2,422	0	14,940	148,619
1911	9,825	1,580	2,363	0	13,768	150,793
1912	12,514	1,811	2,855	0	17,180	155,046
1913	19,101	2,207	4,282	0	25,590	170,774
1914	16,668	2,327	4,142	0	23,137	180,177
1915	9,154	2,022	2,981	0	14,157	181,317
1916	18,777	1,803	4,039	0	24,619	192,108
1917	16,590	1,966	4,851	0	23,407	199,319
1918	17,845	2,229	5,613	0	25,687	207,815
1919	21,052	2,135	5,986	0	29,173	228,084
1920	24,273	2,274	7,364	0	33,911	268,247
1921	14,666	2,111	5,160	0	21,937	274,500
1922	17,333	2,024	5,332	0	24,689	284,880
1923	16,206	2,367	5,865	0	24,438	290,100
1924	14,587	2,257	5,044	0	21,888	299,100
1925	16,559	2,330	6,734	0	25,623	306,100
1926	19,013	2,341	7,965	0	29,319	318,600
1927	14,442	2,491	7,210	0	24,143	323,300
1928	12,526	2,727	7,078	0	22,331	327,800
1929	15,572	2,870	7,914	0	26,356	328,200
1930	11,640	2,866	6,734	0	21,240	331,070
1931	6,788	1,985	3,659	0	12,432	315,850
1932	10,444	1,027	3,569	0	15,040	321,500
1933	8,068	932	3,312	0	12,312	326,850
1934	12,520	1,368	4,309	0	18,197	333,070
1935	14,663	1,401	4,911	445 (a)	21,420	340,990
1936	17,800	2,070	5,297	723	25,890	349,450
1937	22,386	2,676	6,560	1,453	33,075	363,030
1938	18,598	2,066	6,141	688	27,493	369,640
1939	17,625	2,198	6,474	1,420	27,717	380,390
1940	19,125	2,352	6,617	1,947	30,041	389,010
1941	19,552	3,007	7,128	2,366	32,053	399,960
1942	10,492	2,068	5,504	1,760	19,824	404,840
1943	9,717	1,782	6,395	1,547	19,431	407,170
1944	13,028	3,067	7,009	2,156	25,260	412,220
1945	14,297	2,898	7,471	2,209	26,875	415,750
1946	15,851	3,090	8,047	2,237	29,225	421,460

SOURCE: Wells drilled--Oil and Gas Journal, "Forecast-Review" issues.
Producing wells--Department of Interior, Bureau of Mines, Mineral Industry Surveys.

(a) Not available prior to 1935.

BASIC PETROLEUM DATA BOOK

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Section IV
Table 1

World Crude Oil Production by Area
(Thousands of barrels)

Year	United States(a)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Subtotal	Communist Nations	USSR	Total World
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	NA	3,022,139
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	NA	3,433,234
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	NA	3,404,142
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	NA	3,803,027
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	NA	4,282,730
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	NA	4,531,114
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	NA	4,798,055
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	NA	5,016,591
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	NA	5,625,659
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	NA	6,124,676
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,102	166,631	5,617,319	821,125	NA	6,438,444
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,713	169,824	5,676,265	931,485	NA	6,607,750
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,943	193,308	6,074,425	1,058,813	NA	7,133,238
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	NA	7,674,460
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	NA	8,186,213
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	NA	8,881,858
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	NA	9,538,346
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	NA	10,309,644
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	NA	11,062,515
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	NA	12,021,786
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	NA	12,914,340
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	NA	14,146,318
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	NA	15,222,511
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	NA	16,718,708
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	NA	17,662,793
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	NA	18,600,745
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	NA	20,367,981
1974	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	NA	20,537,727
1975	3,052,048	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,169,574	4,328,030	NA	19,497,604
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	NA	21,191,540
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	NA	21,900,695
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	NA	22,158,251
1979	3,121,310	546,040	1,919,535	828,550	7,868,670	2,423,600	1,051,200	17,758,905	5,118,030	NA	22,876,935
1980	3,146,365	521,184	2,035,692	890,965	6,735,498	2,226,378	1,000,278	16,556,360	5,204,520	NA	21,760,880
1981	3,128,624	469,025	2,182,700	955,570	5,749,480	1,672,065	1,027,110	15,184,574	5,192,125	NA	20,376,699
1982	3,156,715	463,550	2,256,065	1,078,210	4,622,360	1,629,725	955,570	14,162,195	5,212,930	NA	19,375,125
1983	3,170,999	494,940	2,203,505	1,236,620	4,215,750	1,609,650	1,024,555	13,956,019	5,254,905	NA	19,210,924
1984	3,249,696	516,426	2,315,682	1,331,874	4,128,114	1,713,978	1,164,978	14,420,748	5,332,620	NA	19,753,368
1985	3,274,553	531,805	2,284,900	1,369,480	3,761,325	1,772,075	1,142,450	14,136,588	5,352,360	NA	19,488,948
1986	3,168,252	537,280	2,190,000	1,395,030	4,639,150	1,819,890	1,176,760	14,926,362	5,402,730	NA	20,329,092
1987	3,047,378	569,400	2,200,220	1,377,875	4,610,315	1,727,910	1,141,720	14,674,818	5,494,345	NA	20,169,163
1988	2,979,123	588,894	2,303,238	1,388,970	5,297,118	1,828,536	1,148,142	15,534,021	5,511,228	NA	21,045,249
1989	2,778,773	567,575	2,335,635	1,314,000	5,846,205	1,974,285	1,186,615	16,003,088	5,380,830	NA	21,383,918

See notes and sources at end of table

World Crude Oil Production by Area
(Thousands of barrels)

Year	United States(a)	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Subtotal	Communist Nations	USSR	Total World
1990	2,684,687	566,845	2,486,745	1,533,000	5,996,950	2,174,305	2,261,540	17,704,072	NA	3,960,250	21,664,210
1991	2,707,039	565,750	2,604,275	1,589,575	5,801,310	2,290,375	2,327,605	17,885,929	NA	3,578,095	21,464,024

(a) Includes lease condensate

(b) Due to the political changes in the USSR and Eastern Europe the category Communist Nations has been discontinued.
Beginning in 1990, the USSR will have its own entry and Western Europe and Eastern Europe will be combined under the Western Europe column.

SOURCE: 1947-1958: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, Annual
1959-1972: International Petroleum Annual
1973-1978: U.S. Energy Information Administration, World Crude Oil Production Annual
1979-1991: U.S.--U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annual
Rest of World--Central Intelligence Agency, International Energy Statistical Review

Section IV
Table 2

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1974	Nation	1975	Nation	1976	Nation	1977
1. U.S.S.R.(a)	3,373,650	1. U.S.S.R.(a)	3,608,850	1. U.S.S.R.(a)	3,822,000	1. U.S.S.R.(a)	3,991,050
2. United States(a)	3,202,585	2. United States(a)	3,052,048	2. Saudi Arabia(b)	3,053,887	2. Saudi Arabia(b)	3,290,000
3. Saudi Arabia(b)	2,996,543	3. Saudi Arabia(b)	2,491,834	3. United States(a)	2,976,180	3. United States(a)	3,009,265
4. Iran	2,197,901	4. Iran	1,952,650	4. Iran	2,168,237	4. Iran	2,080,051
5. Venezuela	1,086,332	5. Venezuela	856,364	5. Venezuela	839,737	5. Iraq	909,945
6. Kuwait(b)	830,580	6. Iraq	825,521	6. Iraq	834,810	6. Venezuela	816,818
7. Nigeria	823,347	7. Kuwait(b)	670,918	7. Nigeria	756,064	7. Nigeria	765,473
8. Iraq	720,729	8. Nigeria	651,890	8. Libya	704,011	8. Libya	753,178
9. Canada	616,532	9. United Arab Emirates	618,310	9. Kuwait(b)	700,000	9. United Arab Emirates	729,506
10. United Arab Emirates	616,485	10. China	571,590	10. United Arab Emirates	692,106	10. China	653,350
11. Libya	555,291	11. Libya	551,150	11. China	645,897	11. Kuwait(b)	650,795
12. Indonesia	501,838	12. Canada	520,666	12. Indonesia	550,319	12. Indonesia	615,123
13. China	474,500	13. Indonesia	477,055	13. Canada	488,680	13. Canada	482,021
14. Algeria	368,139	14. Algeria	350,753	14. Algeria	383,816	14. Algeria	409,864
15. Mexico(a)	238,271	15. Mexico	294,254	15. Mexico	327,285	15. Mexico	358,090
16. Qatar	189,348	16. Qatar	159,482	16. Qatar	178,120	16. United Kingdom	271,653
17. Argentina	151,110	17. Australia	149,873	17. Australia	152,522	17. Qatar	162,316
18. Australia	140,396	18. Argentina	144,364	18. Argentina	145,561	18. Argentina	157,248
19. Romania	107,964	19. Oman	124,600	19. Oman	133,795	19. Australia	157,155
20. Oman	106,046	20. Romania	108,739	20. Egypt	120,180	20. Egypt	150,925
TOTAL WORLD	20,537,727	TOTAL WORLD	19,502,335	TOTAL WORLD	21,191,540	TOTAL WORLD	21,900,695

See notes and sources at end of table

Section IV
Table 2a

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1978	Nation	1979	Nation	1980	Nation	1981
1. U.S.S.R.	4,093,475	1. U.S.S.R.	4,187,280	1. U.S.S.R	4,282,200	1. U.S.S.R.	4,303,350
2. United States(a)	3,175,927	2. Saudi Arabia(b)	3,376,615	2. Saudi Arabia(b)	3,524,946	2. Saudi Arabia(b)	3,513,125
3. Saudi Arabia(b)	3,113,470	3. United States(a)	3,121,310	3. United States(a)	3,146,365	3. United States(a)	3,128,624
4. Iran	1,900,555	4. Iraq	1,269,105	4. Iraq	920,124	4. Mexico(a)	843,880
5. Iraq	959,585	5. Iran	1,156,320	5. Venezuela	792,390	5. Venezuela	769,420
6. Venezuela	790,418	6. Venezuela	859,940	6. China	775,188	6. China	738,760
7. China	731,825	7. Nigeria	840,230	7. Nigeria	753,228	7. United Kingdom	661,015
8. Libya	727,445	8. Kuwait(b)	807,745	8. Mexico(a)	708,942	8. Indonesia	585,640
9. Nigeria	697,150	9. China	774,530	9. Libya	669,780	9. United Arab Emirates	547,500
10. Kuwait(b)	680,725	10. Libya	763,580	10. United Arab Emirates	622,932	10. Nigeria	527,425
11. United Arab Emirates	668,680	11. United Arab Emirates	668,315	11. Iran	680,292	11. Iran	504,065
12. Indonesia	597,505	12. Indonesia	580,715	12. United Kingdom	592,554	12. Canada(a)	469,025
13. Canada(a)	483,260	13. United Kingdom	572,320	13. Indonesia	576,816	13. Libya	415,005
14. Algeria(a)	447,125	14. Canada(a)	546,040	14. Canada(a)	521,184	14. Iraq	362,445
15. Mexico(a)	440,555	15. Mexico(a)	533,265	15. Kuwait(b)	508,374	15. Kuwait(b)	345,655
16. United Kingdom	394,930	16. Algeria(a)	415,005	16. Algeria(a)	373,320	16. Algeria	293,095
17. Qatar	176,537	17. Neutral Zone	207,320	17. Egypt	217,770	17. Egypt	218,270
18. Neutral Zone	170,090	18. Egypt	191,625	18. Neutral Zone	199,104	18. Norway	182,865
19. Egypt	169,360	19. Brunei-Malaysia	187,975	19. Norway	193,248	19. Argentina	181,040
20. Argentina	165,195	20. Qatar	185,420	20. Brunei-Malaysia	189,588	20. Brunei-Malaysia	156,585
TOTAL WORLD	22,158,251	TOTAL WORLD	22,876,935	TOTAL WORLD	21,760,880	TOTAL WORLD	20,376,699

See notes and sources at end of table

Section IV
Table 2b

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1982	Nation	1983	Nation	1984	Nation	1985
1. U.S.S.R.	4,317,950	1. U.S.S.R.	4,330,360	1. U.S.S.R.	4,344,420	1. U.S.S.R.	4,288,385
2. United States(a)	3,156,715	2. United States(a)	3,170,999	2. United States(a)	3,249,696	2. United States(a)	3,274,553
3. Saudi Arabia(b)	2,309,355	3. Saudi Arabia (b)	1,776,455	3. Saudi Arabia(b)	1,626,504	3. Saudi Arabia(b)	1,200,850
4. Mexico	1,002,290	4. Mexico	973,090	4. Mexico	1,005,036	4. Mexico	997,545
5. Iran	832,930	5. Iran	909,580	5. United Kingdom	927,810	5. United Kingdom	924,545
6. United Kingdom	764,310	6. United Kingdom	839,135	6. China	834,480	6. China	911,040
7. China	745,330	7. China	774,165	7. Iran	800,442	7. Iran	824,170
8. Venezuela	690,945	8. Venezuela	650,065	8. Venezuela	663,558	8. Venezuela	591,665
9. Indonesia	483,260	9. Indonesia	505,525	9. Indonesia	536,556	9. Nigeria	534,360
10. Nigeria	473,770	10. Canada	494,940	10. Canada	516,426	10. Canada	531,805
11. Canada	463,550	11. Nigeria	452,965	11. Nigeria	509,838	11. Iraq	524,505
12. United Arab Emirates	455,520	12. United Arab Emirates	408,435	12. Iraq	440,298	12. Indonesia	450,775
13. Libya	431,795	13. Libya	392,740	13. United Arab Emirates	401,502	13. United Arab Emirates	418,290
14. Iraq	354,780	14. Iraq	336,530	14. Libya	392,718	14. Libya	390,185
15. Algeria	255,865	15. Kuwait(b)	321,565	15. Kuwait(b)	333,792	15. Egypt	319,010
16. Kuwait(b)	241,995	16. Algeria	255,135	16. Egypt	302,682	16. Kuwait(b)	314,630
17. Egypt	242,725	17. Egypt	251,485	17. Norway	256,200	17. Norway	286,525
18. Norway	189,070	18. Norway	224,110	18. Algeria	233,508	18. Algeria	235,425
19. Argentina	176,660	19. Brunei-Malaysia	190,895	19. India	173,248	19. India	224,475
20. Brunei-Malaysia	167,535	20. Argentina	174,835	20. Australia	180,072	20. Brazil	211,700
TOTAL WORLD	19,375,125	TOTAL WORLD	19,210,924	TOTAL WORLD	19,753,368	TOTAL WORLD	19,488,948

See notes and sources at end of table

Section IV
Table 2c

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1986	Nation	1987	Nation	1988	Nation	1989
1. U.S.S.R.	4,290,210	1. U.S.S.R.	4,354,450	1. U.S.S.R.	4,357,230	1. U.S.S.R.	4,227,065
2. United States(a)	3,168,252	2. United States(a)	3,047,378	2. United States(a)	2,979,123	2. United States(a)	2,778,773
3. Saudi Arabia(b)	1,795,070	3. Saudi Arabia(b)	1,484,455	3. Saudi Arabia(b)	1,876,848	3. Saudi Arabia(b)	1,789,960
4. China	953,745	4. China	978,930	4. China	1,003,572	4. Iran	1,043,170
5. United Kingdom	915,420	5. Mexico	927,465	5. Mexico	953,796	5. Iraq	1,025,285
6. Mexico	887,315	6. Iran	894,615	6. Iraq	951,234	6. China	1,009,225
7. Iran	710,290	7. United Kingdom	853,370	7. Iran	835,944	7. Mexico	953,745
8. Iraq	626,340	8. Iraq	757,740	8. United Kingdom	789,462	8. United Arab Emirates	686,930
9. Venezuela	575,240	9. Venezuela	573,780	9. Venezuela	607,926	9. Venezuela	625,245
10. Canada	537,280	10. Canada	569,400	10. Canada	588,894	10. United Kingdom	598,600
11. Nigeria	533,265	11. United Arab Emirates	530,710	11. United Arab Emirates	551,196	11. Nigeria	598,235
12. Kuwait(b)	490,560	12. Nigeria	469,390	12. Nigeria	504,714	12. Kuwait(b)	584,730
13. United Arab Emirates	485,815	13. Indonesia	434,715	13. Kuwait(b)	459,330	13. Canada	567,575
14. Indonesia	461,360	14. Kuwait(b)	377,410	14. Indonesia	424,194	14. Norway	528,155
15. Libya	415,005	15. Norway	344,195	15. Norway	404,430	15. Indonesia	444,205
16. Norway	306,965	16. Egypt	327,040	16. Libya	385,764	16. Libya	400,040
17. Egypt	296,745	17. Algeria	231,775	17. Egypt	310,368	17. Egypt	310,980
18. Algeria	244,915	18. India	222,285	18. India	232,410	18. Algeria	253,675
19. India	228,125	19. Brazil	206,590	19. Algeria	231,678	19. India	246,740
20. Brazil	209,875	20. Oman	203,305	20. Oman	221,430	20. Oman	223,745
TOTAL WORLD	20,329,092	TOTAL WORLD	20,169,163	TOTAL WORLD	21,045,249	TOTAL WORLD	21,383,918

See notes and sources at end of table

Section IV
Table 2d

World Crude Oil Production-Twenty Leading Nations
(Thousands of barrels)

Nation	1990	Nation	1991
1. U.S.S.R.	3,960,250	1. U.S.S.R.	3,578,095
2. United States(a)	2,684,687	2. Saudi Arabia(b)	2,948,835
3. Saudi Arabia(b)	2,294,755	3. United States(a)	2,707,039
4. Iran	1,122,740	4. Iran	1,155,955
5. China	1,010,685	5. China	1,016,160
6. Mexico	929,655	6. Mexico	976,010
7. Venezuela	767,595	7. United Arab Emirates	871,620
8. United Arab Emirates	752,630	8. Venezuela	850,085
9. Iraq	711,020	9. Nigeria	688,025
10. Nigeria	649,335	10. Norway	662,840
11. United Kingdom	617,580	11. United Kingdom	619,770
12. Norway	584,730	12. Canada	565,750
13. Canada	566,845	13. Libya	541,295
14. Libya	492,750	14. Indonesia	524,505
15. Indonesia	455,885	15. Egypt	321,565
16. Kuwait(b)	391,645	16. Algeria	292,000
17. Egypt	318,280	17. Oman	261,340
18. Algeria	279,225	18. Malaysia	234,695
19. India	244,185	19. Brazil	228,125
20. Oman	247,105	20. India	227,395
TOTAL WORLD	21,664,210	TOTAL WORLD	21,464,024

(a) Includes lease condensate.
(b) Excluding Neutral Zone production.

SOURCE: 1974-1978: U.S. Energy Information Administration, World Crude Oil Production Annual
1979-1991: U.S.: Energy Information Administration, Petroleum Supply Annual
Rest of World: Central Intelligence Agency, International Energy Statistical Review

United States Stripper Wells and Stripper Well Production

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(a) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	392,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.2
1965	398,299	589,016	4.1	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.3	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392.191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7
1981	409,539	426,502	2.9	3,128,624	13.6
1982	416,493	441,951	2.9	3,156,715	14.0
1983	441,501	462,013	2.9	3,159,440	14.6
1984	452,543	463,459	2.8	3,249,696	14.3
1985	458,447	455,884	2.7	3,274,553	13.9
1986	460,426	449,446	2.7	3,168,252	14.2
1987	451,787	446,837	2.7	3,047,378	14.7
1988	454,150	442,800	2.7	2,979,123	14.9

See notes and sources at end of table

Section IV
Table 3a

United States Stripper Wells and Stripper Well Production

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(a) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1989	452,589	386,916	2.3	2,778,773	13.9
1990	463,854	383,197	2.3	2,684,687	14.3

(a) Includes lease condensate.

SOURCE: Stripper Well data from National Stripper Well Association, National Stripper Well Survey.
Total U.S. Crude Oil Production from Energy Information Administration Petroleum Supply Annual

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	187
Arizona	-	-	-	-	-	-	-	-	-	-	-	12	25
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,083	80,275	76,727
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554
Kansas	105,132	110,908	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620
Missouri	55	31	49	32	24	21	39	96	72	65	65	84	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881
Nevada	-	-	-	-	-	-	-	33	64	64	44	40	32
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,893	94,759	98,515	105,692
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970
North Dakota	-	-	-	-	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,880	4,353	4,785	5,478	6,260	5,978
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,851	202,817	215,862	214,661	200,699	198,090
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,170
South Dakota	-	-	-	-	-	-	-	37	30	32	54	58	151
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978
Utah	-	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6
Washington	-	-	-	-	-	-	-	-	-	-	5	4	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184
Wyoming	44,772	55,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050
Total(Mb)	1,857.0	2,020.2	1,841.9	1,973.6	2,247.7	2,289.8	2,357.1	2,315.0	2,484.4	2,617.3	2,616.9	2,449.0	2,574.6
Daily Ave(Mb)	5.1	5.5	5.0	5.4	6.2	6.3	6.5	6.3	6.8	7.2	7.2	6.7	7.1

See notes and sources at end of table

Section IV
Table 4a

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	7,329	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934
Alaska	559	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893
Arizona	73	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993
Arkansas	30,117	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519
California	305,352	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022
Colorado	47,469	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015
Florida	369	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897
Illinois	77,341	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874
Indiana	12,054	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130
Kansas	113,453	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744
Kentucky	21,147	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702
Louisiana	400,832	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827
Michigan	15,899	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990
Mississippi	51,673	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100
Missouri	75	72	55	53	65	73	97	75	65	67	66	66	60
Montana	30,240	30,906	31,648	30,870	30,647	32,778	35,380	34,959	48,460	43,954	37,879	34,599	33,904
Nebraska	23,825	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106	11,451	10,062	8,705
Nevada	27	154	141	118	255	209	307	279	271	223	149	113	100
New Mexico	107,380	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525
New York	1,813	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256	1,194	1,126	1,018
North Dakota	21,992	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624
Ohio	5,405	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358
Oklahoma	192,913	193,081	202,732	201,962	202,524	203,441	224,839	230,749	223,623	224,729	223,574	213,313	207,633
Pennsylvania	6,009	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441
South Dakota	281	233	169	215	247	219	239	211	187	158	160	233	219
Tennessee	20	17	14	16	10	11	7	7	6	32	309	398	198
Texas	927,479	939,191	943,328	977,835	989,525	1,000,749	1,057,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,686
Utah	37,594	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570
Virginia	2	2	3	3	6	4	1	3	3	1	1	1	-
Washington	1	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,300	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677
Wyoming	133,910	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011
Total(Mb)	2,574.9	2,621.8	2,676.2	2,752.7	2,786.8	2,848.5	3,027.8	3,215.7	3,329.0	3,371.8	3,517.5	3,453.9	3,455.4
Daily Ave(Mb)	7.0	7.2	7.3	7.5	7.6	7.8	8.3	8.8	9.1	9.2	9.6	9.5	9.4

See notes and sources at end of table

Section IV
Table 4b

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	11,677	13,323	13,477	14,706	18,252	19,829	19,161	22,153	20,680	20,014	18,746	19,804	21,581
Alaska	72,323	70,603	69,834	63,398	169,201	448,620	511,335	591,646	587,337	618,910	625,527	630,401	666,233
Arizona	804	740	635	519	427	418	472	406	357	335	237	215	175
Arkansas	18,016	16,527	16,133	18,097	20,202	20,329	18,869	18,210	18,352	18,849	18,849	18,730	19,044
California	336,075	323,003	322,199	326,021	349,609	347,181	352,268	356,923	384,958	401,572	404,688	412,020	423,877
Colorado	36,590	37,508	38,089	38,992	39,460	36,797	32,324	29,802	30,303	30,545	29,050	28,845	30,246
Florida	32,695	36,351	41,877	44,460	46,641	47,536	47,168	42,886	34,773	25,626	19,476	14,462	11,458
Illinois	30,669	27,553	26,067	26,272	25,608	23,362	21,793	22,702	24,090	27,710	29,200	28,868	30,265
Indiana	5,312	4,919	4,632	4,630	5,314	4,689	4,715	4,978	4,721	5,563	5,321	5,526	5,168
Kansas	66,227	61,691	59,106	58,714	57,496	56,586	56,995	60,151	65,810	70,525	71,594	75,729	75,407
Kentucky	8,687	7,837	7,556	7,483	6,581	5,724	5,514	5,946	6,548	7,349	7,886	7,777	7,790
Louisiana	831,524	737,324	650,840	606,501	562,905	532,740	489,687	469,141	449,315	458,395	479,569	515,268	508,239
Michigan	14,614	18,021	24,420	30,421	32,965	34,667	34,862	33,808	32,665	31,462	31,736	30,554	27,300
Mississippi	56,102	50,779	46,614	46,072	43,022	42,024	37,327	35,945	34,204	33,047	31,455	32,776	30,641
Missouri	60	56	57	61	60	54	91	130	226	202	269	285	243
Montana	34,620	34,554	32,844	32,814	32,680	30,467	29,957	29,584	30,813	30,921	29,225	29,761	29,768
Nebraska	7,240	6,611	6,120	6,182	5,968	5,862	6,068	6,240	6,671	6,872	6,380	6,452	6,943
Nevada	96	129	115	143	661	1,156	1,235	880	700	613	810	1,907	3,039
New Mexico	100,986	98,695	95,063	92,130	87,223	83,365	79,649	75,324	71,568	71,024	75,169	79,336	78,530
New York	967	896	875	857	824	852	855	824	841	834	831	840	1,071
North Dakota	20,235	19,697	20,452	21,725	23,273	24,812	30,914	40,337	45,424	47,271	50,690	52,652	50,857
Ohio	8,796	9,088	9,578	9,994	10,359	11,154	11,953	12,928	13,551	14,571	14,971	15,271	14,988
Oklahoma	191,204	177,785	163,123	161,426	156,382	150,456	143,642	150,140	154,056	158,621	158,604	168,385	162,739
Pennsylvania	3,282	3,478	3,264	3,019	2,715	2,887	2,874	2,651	3,729	4,282	4,282	4,284	4,851
South Dakota	275	494	472	447	632	869	846	765	973	1,158	1,172	1,340	1,596
Tennessee	201	769	682	598	820	593	614	743	918	1,132	1,056	920	786
Texas	1,294,671	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	977,436	945,132	925,296	902,676	904,774	888,831
Utah	32,656	39,363	42,301	34,304	33,113	31,368	27,728	24,978	25,860	22,440	29,534	34,689	40,792
Virginia	-	3	3	3	2	2	4	10	13	49	65	32	26
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	2,385	2,665	2,479	2,519	2,518	2,382	2,406	2,336	3,473	3,227	3,628	3,524	3,555
Wyoming	141,914	139,997	135,943	134,149	136,472	137,385	131,890	126,362	130,563	118,300	118,303	124,269	128,514
Total(Mb)	3,360.9	3,202.6	3,056.8	2,976.2	3,009.3	3,178.2	3,121.3	3,146.4	3,128.6	3,156.7	3,171.0	3,249.7	3,274.6
Daily Ave(Mb)	9.2	8.8	8.4	8.1	8.2	8.7	8.6	8.6	8.6	8.6	8.7	8.9	9.0

See notes and sources at end of table

United States Crude Oil Production by State(a)
(Thousand Barrels)

STATE	1986	1987	1988	1989	1990	1991
Alabama	21,122	20,607	20,797	19,813	18,538	18,637
Alaska	681,310	715,955	738,143	683,980	647,310	656,349
Arizona	161	131	113	138	122	111
Arkansas	15,778	14,230	13,606	11,261	10,387	10,300
California	406,665	395,698	386,014	364,249	350,900	351,016
Colorado	29,309	28,802	32,352	30,665	30,454	31,380
Florida	9,383	8,270	7,746	7,289	5,674	4,727
Illinois	27,245	23,980	22,476	20,377	19,954	19,068
Indiana	4,759	3,738	3,665	3,310	3,000	3,013
Kansas	67,034	59,884	58,824	55,484	55,427	56,929
Kentucky	6,475	5,743	5,458	5,414	5,411	5,485
Louisiana	512,108	473,989	435,166	402,569	392,781	414,469
Michigan	25,688	25,972	23,250	21,566	19,675	17,518
Mississippi	29,997	28,103	27,553	27,403	27,033	27,055
Missouri	110	110	156	136	146	150
Montana	27,072	25,059	23,338	20,956	19,810	19,579
Nebraska	7,098	6,091	5,978	6,232	5,890	5,832
Nevada	2,907	3,112	3,230	3,218	4,012	3,411
New Mexico	75,712	72,328	71,235	68,713	67,247	70,416
New York	853	710	566	495	416	427
North Dakota	45,628	41,351	39,343	36,744	36,716	35,891
Ohio	13,442	12,153	11,711	10,219	10,008	9,158
Oklahoma	149,105	134,378	128,874	117,493	112,274	108,095
Pennsylvania	3,783	3,302	2,830	2,702	2,643	2,533
South Dakota	1,586	1,644	1,657	1,613	1,648	1,663
Tennessee	644	614	601	532	508	485
Texas	839,606	787,516	764,793	717,821	703,086	706,961
Utah	39,172	35,788	33,018	28,416	27,604	24,468
Virginia	18	17	25	21	15	11
Washington	--	--	--	--	--	--
West Virginia	3,145	2,835	2,621	2,243	2,143	1,963
Wyoming	121,337	115,267	113,985	107,713	103,855	99,928
Total(Mb)	3,168.3	3,047.4	2,979.1	2,778.8	2,684.7	2,707.0
Daily Ave(Mb)	8.7	8.4	8.2	7.6	7.4	7.4

(a) Includes lease condensate

SOURCE: 1947-1965: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1980-1991: U.S. Energy Information Administration, Petroleum Supply Annuals

United States Stripper Well Production by State
(In Thousands of Barrels)

State	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980(b)	1981	1982
Alabama	--	--	26.2	45.7	87.1	116.7	162.4	139.2	120.7	144.4	124.8	121.9	157.7
Arizona	--	2.6	1.8	0.1	3.7	5.3	5.7	6.7	4.8	4.5	15.8	22.6	23.9
Arkansas	7,719.3	7,238.9	7,281.5	6,658.6	6,747.8	5,043.7	5,198.9	6,171.5	7,753.9	7,231.2	5,689.5	5,465.0	5,131.9
California	51,737.9	58,245.3	65,530.8	61,451.6	77,497.2	60,574.2	52,245.7	51,409.6	49,558.2	45,520.8	44,109.7	54,803.8	55,419.4
Colorado	2,149.5	2,050.3	2,024.1	1,919.6	1,829.5	1,953.4	2,012.5	2,017.0	2,018.1	1,955.0	1,989.2	2,158.7	2,203.7
Illinois	42,860.8	38,304.3	33,128.2	28,826.6	26,023.9	25,214.7	24,936.2	23,614.2	21,159.7	20,324.9	20,166.5	22,238.4	23,989.1
Indiana	7,777.1	6,439.3	6,108.4	5,254.2	4,919.9	4,031.7	4,470.8	5,255.3	4,559.9	4,556.6	4,019.4	4,781.2	4,567.9
Kansas	55,835.4	51,857.1	50,447.9	45,948.7	44,615.0	43,706.7	44,433.0	44,189.8	44,461.1	43,947.6	44,545.1	45,010.4	47,629.1
Kentucky	11,301.0	10,531.0	9,128.0	7,314.0	6,463.9	6,182.8	6,172.8	5,420.8	4,712.7	4,548.8	4,572.5	4,479.2	5,143.6
Louisiana	8,466.8	8,077.8	7,598.8	7,324.7	7,501.8	7,574.2	8,176.0	7,739.5	7,916.1	7,680.7	7,657.3	9,011.5	9,172.0
Michigan	4,754.6	4,731.7	4,826.2	4,863.3	4,883.0	4,760.3	4,601.8	6,233.0	5,601.9	5,620.5	4,717.0	2,448.5	2,820.1
Mississippi	875.4	1,043.0	425.3	438.0	571.5	648.8	1,214.6	1,349.3	1,233.5	1,600.9	1,890.4	3,804.7	2,236.5
Missouri	66.3	66.1	59.3	59.8	56.0	57.0	60.3	59.5	53.3	54.3	127.4	226.2	52.5
Montana	7,454.5	1,919.3	1,910.4	2,143.9	2,024.0	3,578.7	2,947.3	3,255.3	2,804.7	2,829.5	2,710.1	2,748.0	2,881.0
Nebraska	1,056.1	1,191.0	1,121.7	1,196.4	1,378.8	1,545.4	1,758.0	2,012.3	2,024.8	1,865.7	2,236.5	2,510.3	2,878.6
New Mexico	10,201.5	10,187.3	10,074.8	10,223.8	10,835.4	11,082.5	11,141.1	11,547.2	11,830.8	12,067.9	12,924.4	13,462.8	14,207.2
New York	1,193.5	1,096.7	1,018.0	969.0	896.0	875.0	857.0	813.0	852.0	855.0	824.0	849.0	719.0
North Dakota	853.8	936.5	798.1	853.8	933.5	929.7	1,075.1	1,145.9	1,196.5	1,250.2	1,225.1	1,386.1	1,492.5
Ohio	6,904.8	5,800.2	6,550.6	6,157.4	6,361.6	6,704.6	6,996.1	7,251.2	7,808.1	8,366.8	9,049.5	9,485.9	10,199.4
Oklahoma	85,645.2	80,895.8	77,967.1	74,109.9	73,694.7	72,530.6	73,459.3	74,400.4	74,175.4	76,000.5	79,945.0	83,248.7	94,237.0
Pennsylvania	4,015.0	3,798.0	3,441.0	3,282.0	3,399.0	3,199.0	2,950.0	2,659.4	2,564.5	2,816.7	2,650.5	3,606.0	3,717.9
South Dakota	--	27.9	25.8	26.3	21.0	18.0	20.5	14.5	16.5	22.3	24.7	39.3	55.4
Tennessee	11.8	29.9	24.5	44.8	107.8	125.6	140.4	194.1	269.9	387.5	293.4	290.5	N.A
Texas	123,736.6	122,417.4	116,635.7	112,246.9	126,386.9	126,018.3	129,699.8	127,886.4	131,210.9	136,590.2	141,825.2	145,939.8	143,928.7
Utah	90.3	82.7	97.1	132.0	123.5	98.2	261.8	136.4	134.5	180.0	220.3	376.7	N.A
Virginia	0.9	0.6	0.1	0.0	2.8	3.0	2.7	1.7	2.4	3.7	9.5	13.2	49.4
West Virginia	3,124.0	2,969.0	2,677.0	2,407.0	2,673.0	2,478.0	2,400.0	2,384.0	2,255.2	2,381.9	2,312.6	2,607.1	2,683.0
Wyoming	3,455.3	3,382.3	2,996.4	1,785.1	1,897.9	5,107.0	4,790.7	5,224.7	5,333.3	5,597.0	5,210.5	5,366.9	6,354.5
U.S. TOTAL(c)	441,287.2	423,322.1	411,924.8	385,683.5	411,936.0	394,162.9	392,190.5	392,531.9	391,633.1	394,405.1	401,095.2	426,502.4	441,951.0

See notes and sources at end of table

Section IV
Table 5a

United States Stripper Well Production by State
(In Thousands of Barrels)

State	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	172.5	171.8	189.0	190.8	193.3	300.8	1,461.1	1,485.6
Arizona	25.6	29.0	28.1	25.5	30.1	28.9	25.6	26.1
Arkansas	7,117.9	5,653.3	5,285.8	5,113.5	4,888.2	6,687.8	6,575.4	5,693.5
California	55,993.3	57,124.5	41,573.4	37,181.7	37,795.8	38,075.6	37,285.9	36,405.1
Colorado	3,629.8	3,329.6	2,682.3	6,216.4	7,323.4	6,609.6	5,985.8	5,698.4
Illinois	25,889.5	25,983.9	27,718.6	24,157.2	21,682.2	20,025.7	18,407.0	18,520.3
Indiana	4,336.4	4,401.2	4,103.2	3,827.3 (a)	3,657.2 (a)	3,576.0	3,309.4	3,001.9
Kansas	48,267.4	48,664.8	50,861.4	61,434.9	57,802.8	57,051.3	46,189.1	40,872.6
Kentucky	5,521.9	6,630.2	6,696.0	5,514.3	4,881.7	4,564.3	4,396.1	4,337.8
Louisiana	9,000.0	9,844.0	9,000.0	10,059.3	8,809.5	8,242.3	7,429.5	7,154.1
Michigan	3,144.9	3,228.1	3,272.2	2,781.7 (a)	2,674.0	3,891.4 (a)	3,135.6	4,599.4
Mississippi	1,286.2	1,330.2	1,721.3	1,121.0	1,270.0	780.2	707.5	801.5
Missouri	270.8	270.9	250.0	182.3	100.9	146.7	115.2	119.7
Montana	3,103.8	2,577.1	2,936.6	2,709.2	2,650.9	2,563.5	2,447.6	2,448.5
Nebraska	3,418.0	2,974.4	2,947.3	2,617.2	2,687.7	2,446.3	2,110.7	2,011.2
New Mexico	14,722.3	15,016.0	15,366.5	14,747.5	14,377.8	14,653.1	14,309.1	14,295.6
New York	774.3	679.9	600.6	488.9	511.3	485.2	431.5	382.6
North Dakota	1,537.3	1,755.7	1,905.2	1,692.8	1,833.3	1,897.7	1,925.3	2,053.0
Ohio	10,479.8	10,689.8	10,491.3	9,766.6	8,828.8	8,507.8	7,423.9	7,271.0
Oklahoma	94,430.5	94,045.6	91,841.8	95,902.8	109,081.6	109,440.1	81,675.5	78,599.1
Pennsylvania	3,950.5	4,241.7	4,257.4	3,356.1	2,870.1	2,583.2	2,602.0	2,622.1
South Dakota	43.9	82.1	65.3	34.5	57.4	39.5	55.2	63.7
Tennessee	583.7	510.3	450.8	474.6	444.8	488.6	457.1	419.1
Texas	153,688.5	152,719.8	158,738.5	147,986.4	141,704.3	140,503.8	129,894.5	135,849.7
Utah	542.7	1,088.8	1,550.3	877.8	935.4	932.9	926.7	1,034.5
Virginia	21.6	27.2	20.7	14.1	15.9	15.7	21.3	12.0
West Virginia	3,116.5	3,270.0	3,346.0	2,988.0	2,765.2	2,572.1	2,223.5	2,121.6
Wyoming	6,944.0	7,118.8	7,983.4	7,984.0	6,963.2	5,690.3	5,388.4	5,297.1
U.S. TOTAL(c)	462,013.5	463,458.7	455,883.8	449,446.5	446,836.8	442,800.3	386,915.8	383,196.9

(a) Estimate.
(b) Total includes production of 9.4 thousand barrels in Nevada.
(c) Totals may not add due to independent rounding.

SOURCE: Interstate Oil Compact Commission and National Stripper Well Association.
National Stripper Well Survey

Section IV
Table 6

Oil Volume, Value, and Revenues Received from Onshore Federal and Indian Lands

	Federal			Indian		
Year	Volume (000 bbl)	Market Value (000 $)	Oil Revenues Received (000 $)	Volume (000 bbl)	Market Value (000 $)	Oil Revenues Received (000 $)
1920-1990	7,894,734.0	55,059,994.9	6,905,518.0	1,299,384.6	8,378,140.7	1,191,722.1
1980	149,699.3	3,275,608.5	413,403.2	21,991.8	449,435.0	67,185.9
1981	155,573.7	4,891,778.8	604,783.0	21,944.9	705,243.0	103,919.4
1982	149,612.8	4,273,036.0	524,530.2	19,809.9	611,292.2	92,559.8
1983	151,456.8	4,118,421.3	523,898.7	20,083.2	593,094.9	89,727.6
1984	152,339.4	4,086,190.8	519,046.6	21,801.3	584,887.1	75,973.0
1985	169,968.7	4,117,255.9	492,367.9	20,432.6	519,968.8	75,026.0
1986	157,297.5	2,227,484.7	268,689.6	19,977.9	295,214.3	42,420.4
1987	149,977.5	2,389,418.1	289,069.7	18,989.9	321,775.0	45,813.8
1988	138,989.6	1,887,117.9	230,896.9	16,876.1	247,010.7	36,046.7
1989	132,705.3	2,136,264.9	263,056.7	15,472.4	269,802.0	40,835.9
1990	145,938.3	2,927,745.4	362,642.9	15,317.6	330,457.5	52,207.3

SOURCE: U.S. Minerals Management Service: Mineral Revenues 1990, Report on Receipts from Federal and Indian Leases.

Section IV
Table 7

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1960		1970		1980		1983	
Company	Production	Company	Production		Production	Company	Production
Texaco	477.6	Standard of New Jersey	946.0	Exxon	787.0	Exxon	781.0
Standard of New Jersey	439.0	Texaco	808.0	Standard of Ohio	715.8	Atlantic Richfield	652.8
Gulf	386.2	Gulf	626.0	Atlantic Richfield	555.7	Standard of Ohio	612.0
Shell	354.9	Shell	595.0	Shell	511.0	Shell	524.0
Standard of California	297.8	Standard of California	474.4	Standard of Indiana	464.0	Standard of Indiana	403.0
Standard of Indiana	286.0	Standard of Indiana	466.0	Texaco	413.0	Texaco	346.0
Phillips	222.5	Atlantic Richfield	405.7	Gulf	364.2	Gulf	319.1
Socony-Mobil	204.1	Mobil	385.0	Standard of California	335.0	Standard of California	317.6
Continental	171.0	Getty	317.0	Mobil	318.0	Mobil	304.0
Sinclair	139.0	Union	314.0	Getty	271.0	Phillips	288.0
Cities Service	125.2	Phillips	270.2	Phillips	269.7	Getty	283.8
Sun	114.1	Sun	258.8	Sun	206.1	Sun	204.6
Ohio Oil (Marathon)	104.8	Cities Service	202.7	Union	173.4	Unocal (Union)	170.4
Union	102.9	Continental	188.0	Marathon	168.3	U.S. Steel	157.3
Atlantic Refining	97.7	Marathon	174.9	Cities Service	154.7	Occidental	148.0
Tidewater	89.7	City of Long Beach(a)	163.5	Conoco	148.0	DuPont	116.0
Amerada	80.9	Amerada Hess	95.7	Amerada Hess	88.3	Tenneco	90.4
Superior	79.7	Tenneco	87.0	Tenneco	79.2	Amerada Hess	74.1
Sunray Mid-Continent	71.2	Superior	65.2	City of Long Beach(a)	72.6	City of Long Beach(a)	72.1
Skelly	69.0	Louisiana Land & Exploration	62.0	El Paso	72.3	Union Pacific	63.0
U.S. TOTAL	7,964.0	U.S. TOTAL	11,297.0	U.S. TOTAL	10,170.0	U.S. TOTAL	10,299.0

See notes and sources at end of table

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1984		1985		1986		1987	
Company	Production	Company	Production	Company	Production	Company	Production
Exxon	778.0	Exxon	768.0	Exxon	761.0	BP America (Standard Oil)(i)	851.3
Texaco(b)	673.8	Standard Oil (Ohio)	719.7	Standard Oil	726.6	Exxon	756.0
Atlantic Richfield	654.7	Atlantic Richfield	647.7	ARCO (Atlantic Richfield)	659.1	ARCO	665.0
Chevron (Standard of California)(c)	646.1	Texaco	640.0	Texaco	590.0	Shell	558.0
Standard of Ohio	634.4	Chevron	587.1	Shell	571.0	Texaco	540.0
Shell	534.0	Shell	530.0	Chevron	546.2	Chevron	506.9
Standard of Indiana	409.0	Amoco (Std. of Ind.)	401.1	Amoco	304.0	Amoco	394.0
Mobil(d)	365.6	Mobil	352.0	Mobil	342.0	Mobil	338.0
Phillips(e)	347.9	Phillips	346.0	Phillips	316.0	Phillips	287.0
Sun	194.1	Sun	195.1	USX (U.S. Steel)(g)	189.0	USX	171.1
U.S. Steel(f)	174.1	Unocal	170.9	Sun	171.3	Unocal	167.0
Unocal	168.8	U.S. Steel	160.2	Unocal	167.9	Sun	159.3
Occidental	150.0	Occidental	147.6	Occidental	148.0	Occidental	129.0
DuPont	120.0	DuPont	120.0	DuPont	126.0	DuPont	107.0
Tenneco	98.6	Tenneco	101.4	Tenneco	104.1	Tenneco	100.9
City of Long Beach(a)	78.6	City of Long Beach(a)	81.7	City of Long Beach(a)	76.9	Burlington Northern	79.8
Amerada Hess	72.7	Amerada Hess	72.0	Union Pacific	71.2	Amerada Hess	68.5
Union Pacific	68.8	Union Pacific	67.9	Burlington Northern(h)	71.0	City of Long Beach(a)	67.8
El Paso	53.8	El Paso	64.7	Amerada Hess	68.8	Union Pacific	61.1
Mitchell	50.0	Santa Fe	49.9	Enron	50.9	Enron	57.1
U.S. TOTAL	10,554.0	U.S. TOTAL	10,636.0	U.S. TOTAL	10,289.0	U.S. TOTAL	10,008.0

See notes and sources at end of table

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

1988		1989	
Company	Production	Company	Production
BP America	857.0	BP America	784.0
Exxon	760.0	Exxon	693.0
ARCO	674.2	ARCO	660.0
Shell	527.0	Shell	494.0
Texaco	526.0	Chevron	481.9
Chevron	483.8	Texaco	479.5
Amoco	409.0	Amoco	390.0
Mobil	304.1	Mobil	293.2
Phillips	284.0	Phillips	254.0
Unocal	169.0	Unocal	165.0
Oryx Energy (Sun)(j)	155.0	Oryx Energy	143.8
USX	154.1	USX	143.5
Occidental	144.0	Occidental	135.0
DuPont	105.0	DuPont	112.0
Amerada Hess	68.0	Amerada Hess	71.0
Union Pacific	66.5	Union Pacific	63.8
City of Long Beach(a)	62.9	City of Long Beach(a)	53.9
Enron	56.5	Enron(k)	53.3
Santa Fe Pacific	53.4	Santa Fe Pacific	50.7
Valero Energy	47.0	Valero Energy	43.7
U.S. TOTAL	9,818.0	U.S. TOTAL	9,219.0

See notes and sources at end of table

Section IV
Table 7c

Twenty Leading Companies
U.S. Crude Oil, Condensate and Natural Gas Liquids Production
(Thousands of Barrels per Day)

(a) Long Beach, California owns several oil fields and a large percentage of the oil produced from these fields. It has contracts with Arco, Exxon, Mobil, Shell, Texaco, Unocal and others to develop the properties. by Long Beach is not included in the contracted companies' net production figures, the city has been included as a separate incorporated municipality.

(b) Texaco acquired Getty Oil Company on March 1

(c) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984 Standard changed its name to Chevron. Chevron's figure includes Gulf's 1984 full-year production.

(d) Mobil acquired Superior on September 28, 1984. Mobil's figure includes 100% of Superior's estimated annualized production.

(e) Phillips acquired Aminoil from R.J. Reynolds on October 26, 1984. Phillips' figure includes 100% of Aminoil's estimated annualized production.

(f) U.S. Steel acquired the U.S. assets of Husky Oil Ltd. on May 31, 1984. U.S. Steel's figure includes 100% of Husky's estimated annualized production of its U.S. assets.

(g) On February 11, 1986 a subsidiary of U.S. Steel merged with Texas Oil and Gas (TXO). ON July 8, 1986, in recognition of its major diversification into oil and gas businesses, U.S. Steel changed its name to USX Corporation.

(h) On December 13, 1985 Southland Royalty became a wholly owned subsidiary of Burlington Northern Inc. (BNI). BNI also is the parent company of El Paso Natural Gas.

(i) BP America was formed in 1987 through the acquisition of The Standard Oil Company by BP North America Inc.

(j) On November 1, 1988 Oryx Energy Company acquired Sun Company's domestic oil and gas exploration and production business. Oryx's figure includes 153.7 thousand barrels of crude oil, condensate, and NGL produced daily by Sun Company during the first 10 months of 1988.

(k) Enron's figure includes the purchase of CSX Energy Corporation

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R.

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	55.3	47.6	47.2	52.8
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	170.8	138.9	559.2	573.6	555.2
Arizona	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.4	28.7
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1	12.6	12.4	12.6
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3	21.6	21.9	20.7
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1	63.4	56.3	50.7
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104.4	110.5
Illinois	7.1	6.8	6.6	6.2	6.0	5.7	6.1	6.1	7.5	7.4	6.7	6.9	6.6	6.6	6.6	6.9	6.8
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4	5.8	5.8	5.6
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7	7.6	7.0	6.4
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8	2.5	2.5	2.9
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5	47.1	51.1	52.2
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3	12.0	10.9	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5	50.7	56.8	61.3
Missouri	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.4	1.4
Montana	6.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8	24.0	24.7	23.1
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0	38.9	37.6	34.3
Nevada	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	96.6	80.8
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7	20.8	19.1	18.3
New York	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.2	0.3	0.3
North Dakota	--	--	--	--	--	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3	41.4	39.7	37.9
Ohio	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.0	0.9	0.9	0.9	1.1
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9	6.7	6.9	6.8
Pennsylvania	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
South Dakota	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.4	27.4
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	1.1
Texas	21.1	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3	13.2	13.1	13.5
Utah	--	--	--	--	--	--	--	--	--	--	75.7	182.7	180.1	137.6	114.0	103.3	108.6
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	1.5
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3	50.6	48.1	52.1
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	41.9	45.4	42.0	34.1	12.0	13.4	--	--
TOTAL	12.0	12.8	11.4	11.8	13.1	13.0	13.1	12.6	13.2	13.3	12.8	11.7	12.2	12.0	12.1	12.3	12.7

See notes and sources at end of table

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5	62.1	64.8	79.1	85.0	80.3	90.1
Alaska	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4	947.2	897.5	1,935.6	3,805.3	3,765.9	3,853.4
Arizona	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5	65.7	51.6	41.8	36.4	37.0	33.6
Arkansas	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3	6.1	6.7	7.2	7.1	6.5	6.1
California	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4	21.7	21.3	22.3	21.9	22.1	21.9
Colorado	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2	45.1	40.4	36.9	32.1	26.4	23.5
Florida	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8	822.4	849.5	903.1	1,037.7	1,143.6	993.0
Illinois	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1	3.0	3.1	3.0	2.7	2.5	2.5
Indiana	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1	2.8	2.6	2.9	2.5	2.4	2.5
Kansas	6.2	6.1	6.1	5.8	5.6	5.4	5.3	5.0	4.8	44.0	4.1	3.9	3.8	3.7	3.6	3.6	3.6
Kentucky	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5	1.5	1.5	1.3	1.1	1.1	1.1
Louisiana	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3	64.0	61.4	61.5	60.3	54.5	50.5
Michigan	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4	17.0	22.4	23.5	24.4	24.6	21.0
Mississippi	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0	56.9	56.6	47.0	40.0	32.9	26.3
Missouri	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1	1.0	1.0	0.9	0.9	1.2	1.4
Montana	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8	28.3	27.4	27.0	24.8	23.2	22.2
Nebraska	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2	14.5	13.6	12.2	11.3	11.0	10.5
Nevada	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1	42.0	43.4	120.7	186.3	188.0	120.2
New Mexico	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8	19.3	18.2	16.9	14.4	11.2	11.2
New York	0.4	0.4	0.4	1.1	0.9	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5	0.4
North Dakota	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3	32.2	33.3	40.2	34.7	34.4	39.6
Ohio	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
Oklahoma	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7	6.2	6.1	5.9	5.5	5.2	5.2
Pennsylvania	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
South Dakota	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7	37.5	30.2	30.9	30.9	25.8	21.9
Tennessee	0.7	0.8	0.6	0.6	0.5	2.6	18.6	15.9	7.2	7.9	19.1	11.5	8.4	9.0	5.5	5.1	5.2
Texas	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7	20.9	20.2	19.2	17.8	16.6	10.5
Utah	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4	96.6	74.7	68.6	62.8	53.3	41.7
Virginia	2.3	1.6	0.7	2.7	1.8	0.5	0.5	0.9	--	--	5.5	1.6	1.2	1.0	1.2	1.8	3.6
Washington	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.4
Wyoming	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1	41.1	39.6	37.1	35.3	33.9	29.0
Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	12.9	13.3	14.2	15.3	16.2	16.9	18.0	18.1	18.4	18.3	17.6	16.8	16.3	16.4	17.0	16.3	15.9

See notes and sources at end of table

United States Average Crude Oil Production per Well per Day by State(a)
(Barrels)

State	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Alabama	81.9	76.3	69.3	71.3	73.0	68.6	64.5	63.7	75.5	58.2	57.5
Alaska	2,298.8	2,231.1	2,550.3	2,691.3	1,868.3	1,683.1	1,613.1	1,545.5	1,360.9	1,209.7	1,152.0
Arizona	27.9	25.5	19.1	18.9	17.1	N.A.	15.6	15.4	15.1	13.4	13.8
Arkansas	6.1	6.0	6.2	5.4	5.4	4.3	4.6	4.7	3.9	3.9	3.3
California	22.4	23.3	23.5	23.2	23.3	25.5	23.8	23.0	23.0	22.2	22.1
Colorado	28.5	26.9	17.3	14.7	15.2	14.6	14.3	14.1	13.2	12.6	14.8
Florida	814.3	570.8	389.5	286.3	210.7	225.5	185.7	194.2	197.7	187.3	143.9
Illinois	2.5	2.8	2.8	2.6	2.7	2.3	2.0	1.9	1.7	1.7	1.6
Indiana	2.3	2.5	2.3	2.2	2.0	1.7	1.4	1.3	1.2	1.1	1.1
Kansas	4.3	4.2	4.0	4.2	4.0	3.8	3.4	3.4	3.4	3.3	3.2
Kentucky	1.2	1.3	1.4	1.1	1.0	0.8	0.7	0.7	0.6	0.7	0.7
Louisiana	48.6	56.1	56.2	57.4	53.9	57.0	43.8	44.0	48.5	45.2	48.1
Michigan	20.3	19.0	17.7	17.1	14.6	14.4	14.2	13.1	10.6	11.8	10.6
Mississippi	29.7	34.3	31.6	35.0	24.2	36.8	35.9	36.7	20.9	34.1	39.2
Missouri	1.5	1.1	1.3	1.4	1.1	0.7	1.5	1.5	0.5	0.5	0.5
Montana	21.3	19.7	17.1	19.4	19.4	18.9	17.0	15.4	14.3	14.1	14.3
Nebraska	9.8	9.4	8.3	8.4	9.1	10.6	9.0	9.0	9.6	11.2	9.1
Nevada	NA	NA	NA	140.8	185.0	274.6	243.6	284.7	191.7	239.0	186.9
New Mexico	12.0	11.8	11.8	11.9	11.5	11.3	10.8	10.9	10.6	9.9	10.9
New York	0.4	0.4	0.4	0.5	0.6	0.5	0.4	0.4	0.3	0.3	0.3
North Dakota	48.4	45.6	37.2	42.3	37.7	35.3	32.6	30.6	29.2	28.4	28.2
Ohio	1.7	1.6	1.5	1.6	1.5	1.2	1.1	1.1	0.9	0.9	0.8
Oklahoma	5.1	4.7	4.5	4.6	4.3	4.1	3.6	3.6	3.3	3.8	2.9
Pennsylvania	0.4	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.3	0.3	0.3
South Dakota	22.2	24.4	22.9	26.5	26.5	29.4	30.2	30.0	28.3	30.3	29.6
Tennessee	5.1	4.8	4.2	3.2	2.7	2.2	2.6	2.3	2.0	1.9	1.8
Texas	14.3	13.5	12.6	12.1	11.6	11.4	10.9	10.5	10.5	10.2	10.1
Utah	45.9	38.8	49.5	52.7	57.5	57.8	54.9	48.8	34.8	38.4	31.4
Virginia	NA	NA	NA	NA	NA	1.5	1.6	2.4	2.9	1.6	1.2
Washington	--	--	--	--	--	--	--	--	--	--	--
West Virginia	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3
Wyoming	30.9	27.5	28.6	29.4	29.2	28.0	28.8	26.3	25.6	25.0	23.6
Other	--	36.3	43.6	2.8	2.5	--	--	--	--	--	--
TOTAL	15.4	14.9	14.4	14.3	13.9	13.9	13.5	13.3	12.5	12.5	12.1

(a) Includes lease condensate.

SOURCE: 1947-1974: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement.
1975-1980: U.S. Department of Energy, Energy Information Administration, Annual Petroleum Statements
1981-1991: Calculated by API based on crude oil production from U.S. Energy Information Administration
and number of producing wells from World Oil Magazine.

Historical World Crude Oil Production by Area:1857-1946
(Thousands of Barrels)

Year	United States	Canada	Latin America(a)	Europe(b)	Middle East	Africa	Asia-Pacific	Rest of World	Total World
1857	0	0	0	2	0	0	0	0	2
1858	0	0	0	4	0	0	0	0	4
1859	2	0	0	5	0	0	0	0	7
1860	500	0	0	8	0	0	0	0	508
1861	2,114	0	0	17	0	0	0	0	2,131
1862	3,057	12	0	23	0	0	0	0	3,092
1863	2,611	83	0	69	0	0	0	0	2,763
1864	2,116	90	0	98	0	0	0	0	2,304
1865	2,498	110	0	108	0	0	0	0	2,716
1866	3,598	175	0	126	0	0	0	0	3,899
1867	3,347	190	0	172	0	0	0	0	3,709
1868	3,646	200	0	144	0	0	0	0	3,990
1869	4,215	220	0	261	0	0	0	0	4,696
1870	5,261	250	0	288	0	0	0	0	5,799
1871	5,205	270	0	255	0	0	0	0	5,730
1872	6,293	308	0	276	0	0	0	0	6,877
1873	9,894	365	0	579	0	0	0	0	10,838
1874	10,927	169	0	837	0	0	0	0	11,933
1875	11,963	220	0	964	0	0	5	0	13,152
1876	9,133	312	0	1,599	0	0	7	0	11,051
1877	13,350	312	0	2,082	0	0	10	0	15,754
1878	15,397	312	0	2,690	0	0	18	0	18,417
1879	19,914	575	0	3,089	0	0	23	0	23,601
1880	26,286	350	0	3,356	0	0	26	0	30,018
1881	27,661	275	0	4,040	0	0	17	0	31,993
1882	30,511	275	0	5,064	0	0	15	0	35,865
1883	23,450	250	0	6,535	0	0	20	0	30,255
1884	24,218	250	0	11,473	0	0	28	0	35,969
1885	21,859	250	0	14,626	0	0	30	0	36,765
1886	28,065	584	0	18,556	0	0	38	0	47,243
1887	28,283	526	0	18,969	0	0	29	0	47,807
1888	27,612	695	0	23,821	0	0	37	0	52,165
1889	35,164	705	0	25,491	0	0	147	0	61,507
1890	45,824	795	0	29,844	0	0	170	0	76,633
1891	54,293	755	0	35,809	0	0	243	0	91,100
1892	50,515	780	0	37,133	0	0	311	0	88,739
1893	48,431	798	0	41,804	0	0	1,005	0	92,038
1894	49,344	829	0	37,976	0	0	1,188	0	89,337
1895	52,892	726	0	48,316	0	0	1,758	0	103,692
1896	60,960	727	47	50,371	0	0	2,094	0	114,199
1897	60,476	710	71	57,376	0	0	3,360	0	121,993
1898	55,364	758	71	64,961	0	0	3,825	0	124,979
1899	57,071	808	89	69,903	0	0	3,276	0	131,147
1900	63,621	913	274	80,126	0	0	4,203	0	149,137
1901	69,389	757	285	90,427	0	0	6,562	20	167,440
1902	88,767	531	327	87,115	0	0	5,043	26	181,809
1903	100,461	487	353	84,053	0	0	9,489	36	194,879
1904	117,081	553	416	88,746	0	0	11,112	40	217,948
1905	134,717	634	624	65,752	0	0	13,334	30	215,091
1906	126,494	569	1,033	71,376	0	0	13,761	30	213,263

See notes and sources at end of table

Section IV
Table 9a

Historical World Crude Oil Production by Area:1857-1946
(Thousands of Barrels)

Year	United States	Canada	Latin America(a)	Europe(b)	Middle East	Africa	Asia-Pacific	Rest of World	Total World
1907	166,095	789	1,756	79,242	0	0	16,338	30	264,249
1908	178,527	528	4,890	84,111	0	0	17,201	30	285,287
1909	183,171	421	4,200	91,291	0	0	19,606	20	298,709
1910	209,557	316	5,055	93,817	0	0	18,998	20	327,763
1911	220,449	291	14,316	88,903	0	21	20,361	20	344,361
1912	222,935	243	18,794	90,615	0	214	19,622	20	352,443
1913	248,446	228	28,402	85,111	1,857	98	21,183	20	385,345
1914	265,763	215	28,992	87,104	2,910	754	21,788	20	407,544
1915	281,104	215	36,753	86,677	3,616	216	23,442	10	432,033
1916	300,767	198	44,935	82,056	4,477	412	24,630	25	457,500
1917	335,316	214	60,867	73,704	7,147	952	24,662	29	502,891
1918	355,928	305	70,183	42,598	8,623	1,942	23,911	25	503,515
1919	378,367	241	93,358	45,150	10,139	1,522	27,078	20	555,875
1920	442,929	196	164,137	39,181	12,230	1,046	29,145	20	688,884
1921	472,183	188	203,047	43,297	16,673	1,258	29,336	20	766,002
1922	557,531	179	195,487	51,736	22,247	1,197	30,499	22	858,898
1923	732,407	170	166,448	56,374	25,230	1,063	34,020	24	1,015,736
1924	713,940	161	166,340	65,481	32,373	1,133	34,866	24	1,014,318
1925	763,743	332	156,324	76,367	34,038	1,238	35,868	23	1,067,933
1926	770,874	364	157,574	94,974	35,842	1,197	35,981	17	1,096,823
1927	901,129	477	166,943	110,496	40,026	1,275	42,223	13	1,262,582
1928	901,474	624	205,641	122,970	44,174	1,850	48,026	15	1,324,774
1929	1,007,323	1,117	235,455	141,764	42,943	1,888	55,339	38	1,485,867
1930	898,011	1,522	229,024	176,984	46,742	2 012	57,569	40	1,411,904
1931	851,081	1,543	201,218	222,372	45,276	2,046	50,074	47	1,373,656
1932	785,159	1,044	200,555	218,032	50,308	1,901	53,244	56	1,310,298
1933	905,656	1,145	203,143	216,679	55,340	1,670	57,364	3	1,441,000
1934	908,065	1,411	234,673	247,248	65,825	1,552	62,696	4	1,521,474
1935	996,596	1,447	251,071	254,392	85,946	1,305	64,190	4	1,654,951
1936	1,099,687	1,500	262,975	261,058	97,789	1,282	67,245	4	1,791,540
1937	1,279,160	2,944	305,367	257,836	117,467	1,218	75,235	4	2,039,231
1938	1,214,355	6,966	301,464	267,064	119,808	1,608	76,772	4	1,988,041
1939	1,264,962	7,838	327,256	276,897	120,465	4,693	82,045	4	2,086,160
1940	1,353,214	8,591	312,942	284,094	102,691	6,532	81,743	14	2,149,821
1941	1,402,228	10,134	351,438	300,443	74,531	8,573	73,310	0	2,220,657
1942	1,386,645	10,365	255,151	295,536	102,753	8,316	34,334	0	2,093,100
1943	1,505,613	10,052	292,614	269,723	110,900	8,992	58,743	0	2,256,637
1944	1,677,904	10,099	381,747	331,649	147,496	9,452	33,942	0	2,592,289
1945	1,713,655	8,483	450,146	203,888	194,258	9,434	14,833	0	2,594,697
1946	1,733,939	7,586	516,167	214,046	256,369	9,091	8,232	0	2,745,430

(a) Includes Mexico beginning in 1901.
(b) Includes Western Europe plus U.S.S.R.
(c) Totals for Free World and Sino-Soviet Bloc are not available prior to 1947.

SOURCE: U.S. Department of Interior, Bureau of Mines, Mineral Yearbook.

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Colorado	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Oklahoma	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	2	500	2,114	3,057	2,611	2,116	2,498 (a)	3,598 (a)	3,347 (a)	3,646 (a)	4,215 (a)	5,261 (a)	5,205 (a)	6,293 (a)
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--	--	--	--	NA	NA	NA	NA
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other States	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	2	500	2,114	3,057	2,611	2,116	2,498	3,598	3,347	3,646	4,215	5,261	5,205	6,293

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
California	NA	NA	175 (b)	12	13	15	20	40	100	129	143	262
Colorado	--	--	--	--	--	--	--	--	--	--	--	--
Florida	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	--	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	NA	NA	NA	161 (c)	5 (c)	4 (c)
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	NA	NA	200 (b)	32	30	38	29	39	34	40	48	90
Oklahoma	--	--	--	--	--	--	--	--	--	--	--	--
Pennsylvania	9,894 (a)	10,927 (a)	8,788 (a)	8,969 (a)	13,135 (a)	15,164 (a)	19,685 (a)	26,028 (a)	27,376 (a)	30,054 (a)	23,128 (a)	23,772 (a)
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	NA	NA	2,800 (b)	120	172	180	180	179	151	128	126	90
Wyoming	--	--	--	--	--	--	--	--	--	--	--	--
Other States	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Total	9,894	10,927	11,963 (b)	9,133	13,350	15,397	19,914	26,286	27,661	30,511 (d)	23,450	24,218

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896
Alabama	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--
California	325	377	679	690	303	307	324	385	470	706	1,209	1,253
Colorado	--	--	76	298	317	369	665	824	594	516	438	361
Florida	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	--	--	--	--	1	1	1	1	(e)	(e)	(e)	(e)
Indiana	--	--	--	--	33	64	137	698	2,335	3,689	4,386	4,681
Kansas	--	--	--	--	1	1	1	5	18	40	44	114
Kentucky	5 (c)	5 (c)	5 (c)	5 (c)	5 (c)	6 (c)	9 (c)	7 (c)	3 (c)	2 (c)	2 (c)	2 (c)
Louisiana	--	--	--	--	--	--	--	--	--	--	--	--
Michigan	--	--	--	--	--	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--
New York	--	--	--	--		--	1,586	1,273	1,033	942	913	1,205
Ohio	662	1,783	5,023	10,011	12,472	16,125	17,740	16,363	16,250	16,792	19,545	23,941
Oklahoma	--	--	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)
Pennsylvania	20,776 (a)	25,798 (a)	22,356 (a)	16,489 (a)	21,487 (a)	28,458 (a)	31,424	27,149	19,283	18,078	18,231	19,379
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--
Texas	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)	(e)	1
Utah	--	--	--	--	--	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	91	102	145	119	544	493	2,406	3,810	8,445	8,578	8,120	10,020
Wyoming	--	--	--	--	0	0	0	0	0	2	4	3
Other States	--	--	--	--	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
U.S. Total	21,859	28,065	28,283	27,612	35,164	45,824	54,293	50,515	48,431	49,345	52,892	60,960

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	--	--	--
California	1,903	2,257	2,642	4,325	8,787	13,984	24,382	29,649	33,428	33,099	39,748	44,855	55,472
Colorado	385	444	390	317	461	397	484	502	376	328	332	380	311
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	1	(e)	(e)	(e)	(e)	(e)	--	--	181	4,397	24,282	33,686	30,898
Indiana	4,122	3,731	3,848	4,874	5,757	7,481	9,186	11,339	10,964	7,674	5,128	3,284	2,296
Kansas	81	72	70	75	179	332	932	4,251	12,014 (f)	21,718 (f)	2,410	1,802	1,264
Kentucky	(e)	6 (c)	18 (c)	62 (c)	137 (c)	185 (c)	554 (c)	998 (c)	1,217 (c)	1,214 (c)	821 (c)	728	639
Louisiana	--	--	--	--	--	549	918	2,959	8,910	9,077	5,000	5,789	3,060
Michigan	--	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
Montana	--	--	--	--	--	--	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--	--	--	--	--	--
New York	1,279	1,206	1,321	1,302	1,207	1,120	1,164	1,112	1,118	1,243	1,212	1,159	1,135
Ohio	21,561	18,739	21,142	22,363	21,648	21,014	20,480	18,877	16,347	14,788	12,207	10,859	10,633
Oklahoma	1	--	--	6	10	37	139	1,367	(f)	(f)	43,524	45,799	47,859
Pennsylvania	17,983	14,743	13,054	13,258	12,625	12,064	11,355	11,126	10,437	10,257	10,000	9,424	9,299
Tennessee	--	--	--	--	--	--	--	--	--	--	--	--	--
Texas	66	546	669	836	4,394	18,084	17,956	22,241	28,136	12,568	12,323	11,206	9,534
Utah	--	--	--	--	--	--	--	--	--	--	(g)	(g)	(g)
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	13,090	13,615	13,911	16,196	14,177	13,513	12,899	12,645	11,578	10,121	9,095	9,523	10,745
Wyoming	4	5	6	5	5	6	9	12	8	7	9	18	20
Other States	(e)	(e)	(e)	2	2	1	3	3	3	3	4	15	6
U.S. Total	60,476	55,364	57,071	63,621	69,389	88,767	100,461	117,081	134,717	126,494	166,095	178,527	183,171

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	--	--	--	--	--	--	--	--	--	--	(g)	10,473	12,712	36,610	46,028	77,398	58,332	40,005
California	73,011	81,134	87,269	97,789	99,775	86,592	90,952	93,878	97,532	101,183	103,377	112,600	138,468	262,876	228,933	232,492	224,673	231,196
Colorado	240	227	206	189	223	208	197	121	143	121	111	108	97	86	445	1,226	2,768	2,831
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Illinois	33,143	31,317	28,601	23,894	21,920	19,042	17,714	15,777	13,366	11,960	10,774	10,043	9,383	8,707	8,081	7,863	7,760	6,994
Indiana	2,160	1,695	970	956	1,336	876	769	760	878	972	945	1,158	1,087	1,043	935	829	808	852
Kansas	1,129	1,279	1,593	2,375	3,104	2,823	8,738	36,536	45,451	33,048	39,005	36,456	31,766	28,250	28,836	38,357	41,498	41,069
Kentucky	469	472	484	525	503	437	1,202	3,088	4,368	9,278	8,738	9,013	8,973	8,069	7,407	6,759	6,274	6,719
Louisiana	6,841	10,720	9,263	12,499	14,309	18,192	15,248	11,392	16,043	17,188	35,714	27,103	35,376	24,919	21,124	20,272	23,201	22,818
Michigan	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	--	--	--	--	--	4	94	439
Mississippi	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Missouri	(g)	(g)	--	(g)	(g)	(g)	(g)	--	--	(g)	(g)	(g)	(g)	(g)	--	--	--	--
Montana	--	--	--	--	--	--	45	100	69	90	340	1,509	2,449	2,782	2,815	4,091	7,727	5,058
Nebraska	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--	--		(g)	(g)	(g)	(g)	(g)	98	1,060	1,666	1,226
New York	1,053	954	875	948	939	888	874	880	809	851	906	988	1,000	1,250	1,440	1,695	1,956	2,242
Ohio	9,916	8,817	8,969	8,781	8,536	7,825	7,744	7,751	7,285	7,736	7,400	7,335	6,781	7,085	6,811	7,212	7,272	7,593
Oklahoma	52,029	56,070	51,427	63,579	73,632	97,915	107,072	107,508	103,347	86,911	106,206	114,634	149,571	160,929	173,538	176,768	179,195	277,775
Pennsylvania	8,795	8,248	7,838	7,917	8,170	7,838	7,593	7,733	7,408	8,137	7,438	7,418	7,425	7,609	7,486	8,097	8,961	9,526
Tennessee	--	--	--	--	--	--	1	12	8	15	14	12	10	8	10	24	43	60
Texas	8,899	9,526	11,735	15,009	20,068	24,943	27,645	32,413	38,750	79,366	96,868	106,166	118,684	131,023	134,522	144,648	166,916	217,389
Utah	(g)	(g)	--	--	--	--	--	--	--	--	(g)	--	--	--	(g)	(g)	(g)	(g)
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
West Virginia	11,753	9,795	12,129	11,567	9,680	9,265	8,731	8,379	7,867	8,327	8,249	7,822	7,021	6,358	5,920	5,763	5,946	6,023
Wyoming	115	187	1,572	2,407	3,560	4,246	6,234	8,978	12,596	13,172	16,831	19,333	26,715	44,785	39,498	29,173	25,776	21,307
Other States	4	8	4	11	8	14	8	10	8	12	13	12	13	18	13	12	8	7
U.S. Total	209,557	220,449	222,935	248,446	265,763	281,104	300,767	335,316	355,928	378,367	442,929	472,183	557,531	732,407	713,940	763,743	770,874	901,129

See notes and sources at end of table

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Alabama	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arkansas	32,096	24,917	19,702	14,791	12,051	11,686	11,182	11,008	10,469	11,764	18,180	21,238	25,775	26,327	26,628	27,600
California	231,811	292,534	227,329	188,830	178,128	172,010	174,305	207,832	214,773	238,521	249,749	224,354	223,881	230,263	248,326	284,188
Colorado	2,774	2,358	1,656	1,545	1,136	919	1,139	1,560	1,650	1,605	1,412	1,404	1,626	2,150	2,199	2,320
Florida	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4
Illinois	6,462	6,319	5,736	5,039	4,673	4,244	4,479	4,322	4,475	7,499	24,075	94,912	147,647	132,393	106,391	82,260
Indiana	1,052	981	994	840	806	737	838	777	822	844	995	1,711	4,978	7,411	6,743	5,283
Kansas	38,596	42,813	41,638	37,018	34,848	41,976	46,482	54,843	58,317	70,761	60,064	60,703	66,139	83,242	97,636	106,178
Kentucky	7,359	7,775	7,389	6,456	6,287	4,608	4,860	5,258	5,633	5,484	5,821	5,621	5,188	4,762	4,534	7,883
Louisiana	21,847	20,554	23,272	21,804	21,807	25,168	32,869	50,330	80,491	90,924	95,208	93,646	103,584	115,908	115,785	123,592
Michigan	594	4,528	3,911	3,789	6,910	7,942	10,603	15,776	11,928	16,628	18,745	23,462	19,753	16,359	21,754	20,768
Mississippi	--	--	--	--	--	--	--	--	--	--	--	107	4,400	15,327	28,833	18,807
Missouri	--	--	--	--	(g)	(g)	(g)	(g)	(g)	(g)	(g)	40	44	47	36	36
Montana	4,015	3,980	3,349	2,830	2,457	2,273	3,603	4,603	5,868	5,805	4,946	5,960	6,728	7,526	8,074	7,916
Nebraska	--	--	--	--	--	--	--	--	--	--	--	2	276	1,898	1,237	635
New Mexico	943	1,830	10,189	15,227	12,455	14,116	16,864	20,483	27,223	38,854	35,759	37,637	39,129	39,569	31,544	38,896
New York	2,603	3,377	3,647	3,363	3,503	3,181	3,804	4,236	4,663	5,478	5,045	5,098	4,999	5,185	5,421	5,059
Ohio	7,015	6,743	6,486	5,327	4,644	4,235	4,234	4,082	3,847	3,559	3,298	3,156	3,159	3,510	3,543	3,322
Oklahoma	249,857	255,004	216,486	180,574	153,244	182,251	180,107	185,288	206,555	228,839	174,994	159,913	156,164	154,702	140,690	123,152
Pennsylvania	9,956	11,820	12,803	11,892	12,412	12,624	14,478	15,810	17,070	19,189	17,426	17,382	17,353	16,750	17,779	15,757
Tennessee	46	19	21	6	5	5	10	15	(g)	(g)	(g)	50	24	12	9	10
Texas	257,320	296,876	290,457	332,437	312,478	402,609	381,516	392,666	427,411	510,318	475,850	483,528	493,209	505,572	483,097	594,343
Utah	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	11	12	4	3	4	--	--
Virginia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
West Virginia	5,661	5,574	5,071	4,472	3,876	3,815	4,095	3,902	3,847	3,845	3,684	3,580	3,444	3,433	3,574	3,349
Wyoming	21,461	19,314	17,868	14,834	13,418	11,227	12,556	13,755	14,582	19,166	19,022	21,454	25,711	29,878	32,812	34,253
Other States	6	7	7	7	16	30	41	50	63	66	70					
U.S. Total	901,474	1,007,323	898,011	851,081	785,159	905,656	908,065	996,596	1,099,687	1,279,160	1,214,355	1,264,962	1,353,214	1,402,228	1,386,645	1,505,613

See notes and sources at end of table

Section IV
Table 10f

Historical United States Crude Oil Production by State: 1859-1946
(In Thousands of Barrels)

State	1944	1945	1946
Alabama	43	181	380
Arkansas	29,418	28,613	28,375
California	311,793	326,482	314,713
Colorado	3,083	5,036	11,856
Florida	12	30	57
Illinois	77,413	75,094	75,297
Indiana	5,118	4,868	6,726
Kansas	98,762	96,415	97,218
Kentucky	9,621	10,325	10,578
Louisiana	129,645	131,051	143,669
Michigan	18,490	17,267	17,074
Mississippi	16,337	19,062	24,298
Missouri	45	45	51
Montana	8,647	8,420	8,825
Nebraska	417	305	293
New Mexico	39,555	37,351	36,814
New York	4,697	4,648	4,863
Ohio	2,937	2,828	2,908
Oklahoma	124,616	139,299	134,794
Pennsylvania	14,118	12,515	12,996
Tennessee	9	8	10
Texas	746,699	754,710	760,215
Utah	--	--	--
Virginia	3	4	23
West Virginia	3,070	2,879	2,929
Wyoming	33,356	36,219	38,977
Other States			
U.S. Total	1,677,904	1,713,655	1,733,939

(a) Includes New York
(b) 1875 total U.S. production includes cumulative California production, 1861-1875; cumulative Ohio and West Virginia production, 1860-1875.
(c) Includes Tennessee.
(d) 1882 total U.S. production includes cumulative Kentuchy production, 1860-1882.
(e) Less than 500 barrels.
(f) In 1905 and 1906, Oklahoma production is included with Kansas
(g) Included in Other States.

SOURCE: U.S. Bureau of Mines, Mineral Industry Surveys.

BASIC PETROLEUM DATA BOOK

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Average Hourly Earnings-Total Mining and Manufacturing vs. Petroleum and Natural Gas Extraction and Petroleum Refining
(Annual Average)

Year	Total Mining	Petroleum and Natural Gas Extraction: Total	Petroleum and Natural Gas Extraction: Crude Petroleum and Natural Gas Fields	Petroleum and Natural Gas Extraction: Field Service Workers	Total Manufacturing	Petroleum Refining
1947	1.47	N.A.	1.40	N.A.	1.22	1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	2.39	2.54	2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94
1981	10.06	9.49	10.81	9.11	7.98	12.17
1982	10.82	10.32	11.94	9.78	8.50	13.30
1983	11.30	10.69	12.38	9.97	8.84	14.33
1984	11.58	10.66	12.78	9.89	9.17	14.57
1985	11.95	11.04	13.31	10.13	9.52	15.25

See notes and sources at end of table

Average Hourly Earnings-Total Mining and Manufacturing vs. Petroleum and Natural Gas Extraction and Petroleum Refining (Annual Average)

Year	Total Mining	Petroleum and Natural Gas Extraction Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufacturing	Petroleum Refining
1986	12.45	11.54	13.74	10.25	9.73	15.32
1987	12.45	11.42	14.04	9.98	9.91	15.72
1988	12.69	11.72	14.44	10.19	10.17	16.20
1989	13.26	12.50	15.28	10.70	10.48	16.62
1990	13.68	12.94	16.18	11.11	10.83	17.58
1991	14.18	13.52	16.60	11.77	11.18	18.51

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 2

U.S. Petroleum Industry Employment, by Segment
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1947	248.5	164.0	NA	189.3	NA	NA	NA	NA	NA	NA
1948	274.0	173.6	NA	196.6	NA	NA	NA	NA	NA	NA
1949	266.3	173.1	NA	191.6	NA	NA	NA	NA	NA	NA
1950	266.1	166.8	NA	185.4	NA	NA	117.6	NA	NA	NA
1951	284.4	169.1	NA	198.6	NA	NA	123.8	NA	NA	NA
1952	303.4	177.2	NA	201.6	NA	NA	128.4	NA	NA	NA
1953	311.4	181.3	NA	206.3	NA	NA	133.2	NA	NA	NA
1954	318.1	184.7	NA	203.6	NA	NA	139.1	NA	NA	NA
1955	331.9	189.0	NA	201.3	NA	NA	140.8	NA	NA	NA
1956	340.1	192.3	NA	200.8	NA	25.9	145.3	NA	NA	NA
1957	344.0	194.5	NA	198.9	NA	26.5	149.0	NA	NA	NA
1958	327.5	192.4	135.0	190.4	NA	25.7	151.9	NA	439.1	NA
1959	329.5	185.4	144.2	181.4	NA	24.3	154.1	NA	449.1	NA
1960	309.2	178.2	131.1	177.2	NA	23.1	154.8	NA	460.7	NA
1961	303.1	171.3	131.8	168.4	NA	22.2	155.6	NA	464.3	NA
1962	298.0	167.6	130.4	160.5	NA	21.6	154.6	NA	480.2	NA
1963	289.2	163.8	125.4	153.7	NA	20.7	153.3	NA	493.2	NA
1964	291.1	160.4	130.7	149.6	NA	20.0	153.3	NA	507.2	NA
1965	287.1	156.6	130.5	148.1	NA	19.5	153.6	NA	521.9	NA
1966	281.8	152.5	129.2	148.2	NA	18.9	153.2	NA	538.4	NA
1967	275.8	149.7	126.2	147.9	NA	18.7	155.9	NA	565.9	NA
1968	275.6	148.1	127.5	150.1	NA	18.5	158.4	NA	585.5	NA
1969	279.9	145.8	134.1	144.7	NA	17.9	159.5	NA	606.4	NA
1970	270.1	144.9	125.2	153.7	NA	17.6	161.2	NA	613.3	NA
1971	264.2	144.8	119.4	152.7	NA	17.3	158.5	NA	619.0	NA
1972	267.9	139.7	124.5	152.3	32.6	16.7	160.7	225.2	648.9	1,504.3
1973	273.9	135.6	134.6	149.9	32.6	16.8	162.7	220.8	651.4	1,508.1
1974	300.2	140.7	155.6	155.4	32.4	17.3	163.2	216.8	590.4	1,475.7
1975	328.8	151.3	173.5	154.2	30.3	17.6	161.9	227.5	622.2	1,542.5
1976	345.7	157.3	184.3	157.1	30.7	17.7	159.3	232.0	625.8	1,568.3
1977	381.4	165.8	211.4	159.5	31.6	18.5	158.8	229.7	628.7	1,608.2
1978	429.3	178.2	246.7	164.1	32.3	19.6	163.5	229.4	628.0	1,666.2
1979	474.2	193.3	276.0	165.2	32.6	20.1	167.1	225.4	576.9	1,661.5
1980	559.7	219.6	333.8	154.8	31.0	21.3	168.0	223.9	560.8	1,719.5
1981	692.1	254.3	430.2	172.8	28.9	21.8	174.0	231.5	562.2	1,883.3
1982	708.3	266.0	434.5	164.2	25.0	21.3	176.9	222.6	559.0	1,877.3
1983	597.8	257.9	333.2	158.2	26.3	20.1	173.5	210.9	556.2	1,743.0
1984	606.5	254.3	345.6	151.1	26.7	19.1	173.2	208.3	574.7	1,759.6
1985	582.9	247.1	329.4	141.4	26.3	18.7	174.8	205.9	588.5	1,738.5

See notes and sources at end of table

Section V
Table 2a

U.S. Petroleum Industry Employment, by Segment
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1986	450.5	218.6	226.2	131.1	26.1	18.2	167.4	200.5	596.0	1,589.8
Jan.	557.8	239.4	312.5	134.1	23.6	18.5	171.6	200.6	582.7	1,688.9
Feb.	535.4	235.5	294.2	133.5	23.3	18.2	170.1	200.1	579.9	1,660.5
Mar.	506.5	232.3	268.1	133.5	24.4	16.0	167.7	200.1	583.9	1,634.1
Apr.	471.3	226.6	239.1	133.1	26.2	18.0	166.2	199.9	587.9	1,602.6
May	444.6	221.1	218.0	132.8	27.4	17.9	166.7	200.9	594.1	1,584.4
Jun.	434.5	220.4	208.6	133.0	27.6	18.5	167.3	201.6	601.0	1,583.5
Jul.	430.5	219.8	205.2	132.5	27.7	18.8	169.9	202.9	604.4	1,586.7
Aug.	417.4	212.9	198.9	131.2	28.0	18.6	169.3	203.1	608.4	1,576.0
Sep.	404.5	205.2	193.7	129.0	27.6	18.2	163.4	201.0	605.0	1,548.7
Oct.	402.9	205.3	192.1	127.7	27.0	18.1	164.4	199.4	600.5	1,540.0
Nov.	401.8	203.7	192.4	127.1	26.1	18.0	166.2	198.2	600.4	1,537.8
Dec.	398.2	200.6	191.7	125.2	23.9	17.9	165.8	197.9	604.3	1,533.2
1987	401.8	199.4	197.0	125.2	26.6	18.8	165.0	197.9	608.0	1,543.3
Jan.	393.7	200.7	187.3	126.0	23.1	17.8	164.7	196.6	603.9	1,525.8
Feb.	388.8	198.9	184.2	125.7	23.3	17.8	164.0	196.4	600.8	1,516.8
Mar.	386.3	198.2	182.4	126.0	24.3	17.9	163.8	195.7	599.8	1,513.8
Apr.	388.6	197.4	185.5	125.4	26.0	18.0	163.8	196.1	601.9	1,519.8
May	392.1	197.6	188.8	125.4	27.7	18.3	164.2	196.5	608.5	1,532.7
Jun.	397.7	199.0	193.1	126.1	28.5	19.0	167.2	197.9	613.6	1,550.0
Jul.	403.2	200.6	197.1	126.1	28.2	19.4	168.0	199.0	616.7	1,560.6
Aug.	407.9	200.2	202.2	125.8	28.5	19.5	167.6	199.4	615.9	1,564.6
Sep.	411.3	199.4	206.5	124.6	28.6	19.4	164.9	198.9	610.3	1,558.0
Oct.	417.6	199.9	212.4	124.2	28.3	19.4	164.2	198.7	607.4	1,559.8
Nov.	417.3	199.7	212.3	123.9	27.1	19.6	163.6	199.6	607.1	1,558.2
Dec.	417.6	200.7	211.6	123.6	25.4	19.9	163.6	200.2	610.6	1,560.9
1988	400.7	196.4	199.4	120.8	27.2	18.5	164.2	203.5	625.9	1,560.8
Jan.	409.1	198.3	205.5	123.4	24.0	19.6	163.2	199.0	608.7	1,547.0
Feb.	404.1	197.5	201.5	121.2	24.0	17.8	162.5	198.8	610.9	1,539.3
Mar.	404.1	197.5	201.6	120.4	24.7	17.9	162.4	199.4	613.4	1,542.3
Apr.	402.3	196.5	200.8	120.0	27.0	18.0	162.8	200.2	617.6	1,547.9
May	404.1	196.4	202.8	121.3	28.1	18.1	163.5	201.8	625.3	1,562.2
Jun.	405.5	197.2	203.4	122.0	29.0	18.8	166.8	203.8	631.5	1,577.4
Jul.	405.9	198.3	202.7	122.2	29.0	19.1	167.7	205.9	636.1	1,585.9
Aug.	404.6	197.6	202.1	121.8	29.0	19.1	167.4	206.4	638.2	1,586.5
Sep.	398.4	194.8	198.7	120.4	29.1	18.5	164.0	206.6	633.5	1,570.5
Oct.	394.5	194.2	195.4	119.5	29.0	18.4	163.7	206.6	632.5	1,564.2
Nov.	389.9	194.4	190.6	119.0	28.0	18.3	163.4	206.2	631.4	1,556.2
Dec.	386.3	194.3	187.2	118.3	25.6	18.4	162.7	207.7	632.0	1,551.0

See notes and sources at end of table

U.S. Petroleum Industry Employment, by Segment
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1989	381 5	193.0	183.9	117.4	26.8	18.5	163.4	207.4	642.1	1,557.1
Jan.	379.8	194.2	180.9	117.5	23.4	18.4	162.4	207.4	628.9	1,537.8
Feb.	373.9	192.9	176.3	117.3	23.1	18.3	161.7	209.3	628.1	1,531.7
Mar.	374.1	192.8	176.6	116.9	24.0	18.2	161.4	211.1	630.5	1,536.2
Apr.	376.0	192.8	178.5	116.7	26.4	18.1	161.7	210.1	635.5	1,544.5
May	376.3	192.7	178.9	116.7	28.4	18.2	162.7	209.8	641.7	1,553.8
Jun.	380.1	195.6	179.9	118.3	29.2	19.0	165.7	210.1	646.9	1,569.3
Jul.	383.6	195.6	183.3	118.6	29.0	19.1	166.6	208.7	649.9	1,575.5
Aug.	385.1	194.6	185.7	118.6	29.1	19.1	166.4	208.3	649.8	1,576.4
Sep.	385.0	191.9	188.3	117.2	29.0	18.5	163.4	205.4	648.3	1,566.8
Oct.	385.2	190.6	190.0	117.1	28.5	18.4	163.1	204.3	648.9	1,565.5
Nov.	389.4	190.4	194.4	117.0	27.6	18.3	163.0	202.4	647.5	1,565.2
Dec.	389.8	191.5	193.7	116.7	24.3	18.2	162.9	201.5	649.2	1,562.6
1990	395.1	192.1	198.6	117.9	27.1	18.5	164.8	195.9	647.6	1,566.9
Jan.	386.1	191.6	189.9	116.6	22.6	18.0	162.0	199.5	647.8	1,552.6
Feb.	385.0	192.2	188.3	116.6	23.0	18.1	161.6	197.6	643.1	1,545.0
Mar.	382.3	191.8	186.0	116.5	24.4	18.0	162.2	195.8	645.1	1,544.3
Apr.	385.5	191.7	189.4	116.5	26.2	18.1	162.9	196.2	645.4	1,550.8
May.	390.5	192.5	193.6	116.7	28.1	18.2	164.1	196.3	651.8	1,565.7
Jun.	398.0	194.5	199.1	118.7	29.2	19.0	166.9	196.9	655.1	1,583.8
Jul.	401.9	195.9	201.6	119.2	29.4	19.2	168.1	196.7	656.9	1,591.4
Aug.	400.9	194.5	202.2	119.6	29.6	19.3	167.9	196.1	656.3	1,589.7
Sep.	400.0	192.4	203.4	118.2	29.5	18.7	165.4	195.1	649.5	1,576.4
Oct.	401.3	188.9	207.9	118.1	29.3	18.5	165.5	194.0	642.6	1,569.3
Nov.	404.8	188.8	211.5	118.6	28.0	18.5	165.7	193.9	639.0	1,568.5
Dec.	405.1	190.6	209.9	118.9	25.3	18.7	165.8	193.0	638.9	1,565.7
1991	394.1	191.3	197.9	120.4	26.1	19.0	166.3	188.2	627.3	1,541.4
Jan.	400.9	191.1	205.1	118.4	22.5	18.3	165.6	191.5	629.5	1,546.7
Feb.	400.4	191.0	204.7	118.5	22.7	18.4	165.0	188.6	624.6	1,538.2
Mar.	399.3	190.9	203.7	118.8	23.6	18.5	165.1	186.6	623.4	1,535.3
Apr.	398.0	190.5	202.8	119.5	25.7	18.5	164.8	187.4	623.7	1,537.6
May	398.0	191.7	201.6	119.8	27.3	18.8	165.5	188.3	628.1	1,545.8
Jun.	401.1	194.6	201.7	122.0	28.0	19.4	168.8	189.3	634.6	1,563.2
Jul.	401.2	195.6	200.8	122.4	28.2	19.8	169.3	188.7	638.2	1,567.8
Aug.	396.7	194.7	197.1	122.8	28.1	19.6	168.7	189.0	636.3	1,561.2
Sep.	388.8	191 2	192.5	121.3	28.3	19.3	166.4	187.6	628.3	1,540.0
Oct.	385.3	189.1	191.0	121.0	27.9	19.2	165.9	187.6	621.7	1,528.6
Nov.	381.3	187.8	188.2	120.6	26.7	19.3	165.6	187.1	620.8	1,521.4
Dec.	378.4	187.3	185.9	120.1	24.0	19.2	164.8	186.8	617.9	1,511.2

See notes and sources at end of table

U.S. Petroleum Industry Employment, by Segment
(Average in Thousands)

	Petroleum & Natural Gas Extraction									
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Petroleum Refining	Paving and Roofing	Oil Pipelines	Gas Production and Distribution	Wholesale	Retail	Total
1992										
Jan.	369.1	185.6	178.6	118.9	22.4	19.1	164.1	185.7	612.4	1,491.7
Feb.	364.0	184.8	174.2	118.0	23.3	19.1	163.2	184.6	609.6	1,481.8
Mar.	360.7	184.7	171.1	117.7	23.7	18.9	162.9	184.9	610.7	1,479.5
Apr.	358.2	183.8	169.4	117.2	26.0	18.9	163.1	184.8	612.0	1,480.2

(a) Total employment by establishment--includes production workers, clerical and white collar employees.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings"

Section V
Table 3

Sources of Capital of a Group of Petroleum Companies
(Millions of dollars)

Year	Internal Funds	External Funds	Total Funds
1947	2,221	682	2,903
1948	3,250	592	3,842
1949	2,971	641	3,612
1950	3,285	159	3,444
1951	3,847	316	4,163
1952	4,092	831	4,923
1953	4,591	520	5,111
1954	4,897	353	5,250
1955	5,429	520	5,949
1956	6,351	1,222	7,573
1957	6,536	1,211	7,747
1958	5,806	970	6,776
1959	6,211	241	6,452
1960	6,401	245	6,646
1961	6,892	649	7,541
1962	7,280	677	7,957
1963	7,710	925	8,635
1964	7,905	990	8,895
1965	8,681	1,196	9,877
1966	10,085	2,032	12,117
1967	10,682	2,791	13,473
1968	11,280	4,015	15,295
1969	11,715	2,998	14,713
1970	14,333	4,156	18,489
1971	15,132	5,059	20,191
1972	16,164	4,632	20,796
1973	23,211	4,786	27,997
1974	32,510	6,232	38,742
1975	23,931	10,129	34,060
1976	28,254	10,310	38,564
1977	33,427	8,678	42,105
1978	38,410	4,930	43,340
1979	62,828	8,568	71,396
1980	70,721	11,900	82,621
1981	64,930	16,585	81,515
1982	67,167	15,430	82,597
1983	66,962	8,707	75,669
1984	61,300	26,100	87,400
1985	89,700	23,200	113,000
1986	76,800	16,000	92,700
1987	76,800	14,600	91,400

SOURCE: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Domestic and Foreign Net Income of a Group of Petroleum Companies
(Millions of Dollars)

Year	Net Income U.S.	Foreign	Total
1960	$1,887	$1,581	$3,468
1961	1,958	1,719	3,677
1962	2,044	1,963	4,007
1963	2,392	2,149	4,541
1964	2,556	2,156	4,712
1965	2,927	2,164	5,091
1966	3,438	2,214	5,652
1967	3,727	2,421	6,148
1968	3,913	2,751	6,664
1969	3,774	2,928	6,702
1970	3,609	3,029	6,638
1971	3,372	3,753	7,125
1972	3,526	3,155	6,681
1973	4,008	7,396	11,404
1974	6,119	9,931	16,050
1975	5,623	5,530	11,153
1976	7,165	5,462	12,627
1977	7,420	6,565	13,985
1978	7,968	6,582	14,550
1979	12,237	18,383	30,620
1980	15,073	19,047	34,120
1981	15,916	12,537	28,453
1982	12,831	8,431	21,262
1983	9,573	10,465	20,038
1984	9,191	10,874	20,065
1985	8,289	10,410	18,699
1986	N.A.	N.A.	15,200
1987	N.A.	N.A.	15,200

SOURCE: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Section V
Table 5

World Petroleum Industry Capital and Exploration Expenditures
United States versus Foreign
(Millions of U.S. dollars)

	Capital Expenditures			Geological & Geophysical Expenses & Lease Rentals			Combined		
Year	United States	Foreign	World Total	United States	Foreign	World Total	United States	Foreign	World Total
1947	2,825	1,225	4,050	250	70	320	3,075	1,295	4,370
1948	3,350	1,600	4,950	300	100	400	3,650	1,700	5,350
1949	3,000	1,925	4,925	325	100	425	3,325	2,025	5,350
1950	2,925	1,500	4,425	300	125	425	3,225	1,625	4,850
1951	3,625	1,700	5,325	400	150	550	4,025	1,850	5,875
1952	4,400	2,350	6,750	500	175	675	4,900	2,525	7,425
1953	5,025	2,550	7,575	575	175	750	5,600	2,725	8,325
1954	5,350	2,725	8,075	600	200	800	5,950	2,925	8,875
1955	5,600	2,950	8,550	625	250	875	6,225	3,200	9,425
1956	6,050	3,975	10,025	700	300	1,000	6,750	4,275	11,025
1957	6,400	5,000	11,400	700	375	1,075	7,100	5,375	12,475
1958	5,300	5,400	10,700	650	400	1,050	5,950	5,800	11,750
1959	5,275	5,775	11,050	650	470	1,120	5,925	6,245	12,170
1960	5,175	5,350	10,525	625	460	1,085	5,800	5,810	11,610
1961	5,100	5,325	10,425	600	420	1,020	5,700	5,745	11,445
1962	5,725	5,385	11,110	575	425	1,000	6,300	5,800	12,100
1963	5,475	5,675	11,150	600	450	1,050	6,075	6,125	12,200
1964	6,100	6,175	12,275	650	480	1,130	6,750	6,655	13,405
1965	6,375	6,800	13,175	610	570	1,180	6,985	7,370	14,355
1966	7,125	7,550	14,675	650	460	1,110	7,775	8,010	15,785
1967	7,650	7,925	15,575	615	575	1,190	8,265	8,500	16,765
1968	8,350	9,550	17,900	715	615	1,330	9,065	10,165	19,230
1969	8,175	10,200	18,375	725	655	1,380	8,900	10,855	19,755
1970	8,225	11,900	20,125	665	675	1,340	8,890	12,575	21,465
1971	7,250	14,550	21,800	715	680	1,395	7,965	15,230	23,195
1972	9,050	15,900	24,950	740	800	1,540	9,790	16,700	26,490
1973	10,640	19,355	29,995	850	850	1,700	11,490	20,205	31,695
1974	16,625	27,075	43,700	1,130	1,055	2,185	17,755	28,130	45,885
1975	17,725	31,900	49,625	1,195	1,130	2,325	18,920	33,030	51,950
1976	22,085	34,640	56,725	1,375	1,160	2,535	23,460	35,800	59,260
1977	22,400	39,180	61,580	1,645	1,750	3,395	24,045	40,930	64,975
1978	24,475	43,900	68,375	1,975	2,060	4,035	26,450	45,960	72,410
1979	32,200	49,425	81,625	2,600	2,725	5,325	34,800	52,150	86,950
1980	42,900	62,625	105,525	3,850	3,775	7,625	46,750	66,400	113,150
1981	63,000	75,600	138,600	5,700	4,900	10,600	68,700	80,500	149,200
1982	63,550	75,875	139,425	4,500	5,100	9,600	68,050	80,975	149,025
1983	45,600	66,175	111,775	4,250	4,175	8,425	49,850	70,350	120,200
1984	45,850	60,925	106,775	4,075	4,300	8,375	49,925	65,225	115,150

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

Sources and Uses of Working Capital of a Group of Petroleum Companies
(Million dollars)

	Funds Available From					Funds Used For				
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other(a)	Total	Capital Expenditure	Dividends	Long Term Debt Repaid	Other(b)	Total
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,231
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860
1971	14,389	5,059	(c)	743	20,191	12,511	3,836	2,029	972	19,348
1972	14,377	4,632	(c)	1,787	20,796	12,717	3,774	3,258	751	20,500
1973	20,623	4,786	(c)	2,588	27,997	14,247	4,056	4,023	381	22,707
1974	28,165	6,232	(c)	4,345	38,742	22,270	4,681	4,262	894	32,107
1975	22,714	10,129	(c)	1,217	34,060	24,205	4,819	5,316	1,740	36,080
1976	25,828	10,310	(c)	2,426	38,564	26,036	5,208	5,230	829	37,303
1977	29,003	8,678	(c)	4,424	42,105	27,156	5,995	5,954	1,508	40,613
1978	33,184	4,930	(c)	5,226	43,340	28,770	6,781	6,885	1,562	43,998
1979	55,844	8,568	(c)	6,984	71,396	42,229	8,127	8,249	2,473	61,078
1980	64,859	11,900	(c)	5,862	82,621	53,776	10,305	9,728	2,613	76,422
1981	63,207	16,585	(c)	1,723	81,515	63,976	11,068	10,020	4,867	89,931
1982	60,884	14,980	450	6,283	82,597	64,538	11,265	10,485	3,731	90,019
1983	60,256	8,407	300	6,706	75,669	49,521	11,057	7,524	4,507	72,609
1984	57,200	24,900	1,200	4,100	87,400	44,300	10,600	7,000	35,000	96,900
1985	70,200	22,700	500	19,500	113,000	49,800	12,500	27,100	26,800	116,100
1986	54,100	14,800	1,200	22,700	92,700	35,000	13,000	19,000	14,200	81,200
1987	57,800	11,400	3,200	19,000	91,400	36,700	13,100	14,600	25,100	89,800

(a) Other includes sales of assets and other transactions and_ in 1984-85 includes mergers and acquisitions.
(b) Other includes investments and advancements and preferred and common stock retired.
(c) Included in Long Term Debt Issued.

SOURCE: *The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies*

Section V
Table 7

Domestic and Foreign Capital Expenditures of the World Petroleum Industry
(Million dollars)

Year	Production		Transportation		Refineries & Chemical Plants		Marketing		Other Capital Expenditures		Total Capital Expenditures	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
1947	1,750	475	295	310	400	225	300	175	80	40	2,825	1,225
1948	2,100	685	310	255	600	405	225	165	115	90	3,350	1,600
1949	2,000	770	250	405	420	475	240	215	90	60	3,000	1,925
1950	2,100	475	215	430	275	375	275	180	60	40	2,925	1,500
1951	2,650	575	285	410	325	400	300	245	65	70	3,625	1,700
1952	3,200	890	385	505	470	490	280	375	65	90	4,400	2,350
1953	3,525	890	425	610	675	620	325	360	75	70	5,025	2,550
1954	3,800	970	325	740	800	585	350	385	75	45	5,350	2,725
1955	4,100	1,110	225	655	835	580	375	535	65	70	5,600	2,950
1956	4,475	1,725	225	775	825	725	450	685	75	65	6,050	3,975
1957	4,525	2,180	345	1,060	950	980	475	710	105	70	6,400	5,000
1958	3,650	1,925	350	1,520	725	1,045	400	745	175	165	5,300	5,400
1959	3,850	2,030	260	1,720	525	1,020	450	885	190	120	5,275	5,775
1960	3,735	1,875	265	1,395	560	1,030	475	950	140	100	5,175	5,350
1961	3,525	1,855	230	1,140	685	1,265	525	930	135	135	5,100	5,325
1962	4,000	1,665	340	1,205	660	1,415	600	985	125	105	5,725	5,375
1963	3,650	1,520	415	1,155	600	1,765	650	1,085	160	150	5,475	5,675
1964	3,960	1,605	340	1,570	675	1,515	850	1,340	275	145	6,100	6,175
1965	3,760	2,025	265	1,510	1,125	1,665	1,000	1,430	225	170	6,375	6,800
1966	3,770	1,870	300	1,755	1,575	2,435	1,100	1,310	380	180	7,125	7,550
1967	4,025	1,975	400	1,740	1,600	2,550	1,250	1,455	375	205	7,650	7,925
1968	4,925	2,535	475	2,280	1,450	2,980	1,150	1,515	350	240	8,350	9,550
1969	4,750	2,790	400	2,600	1,525	2,995	1,250	1,555	250	260	8,175	10,200
1970	4,335	2,895	550	2,915	1,625	3,900	1,450	1,770	265	420	8,225	11,900
1971	3,385	3,830	675	3,435	1,550	4,740	1,350	2,030	290	515	7,250	14,550
1972	5,915	4,190	425	4,580	1,350	4,955	1,100	1,725	260	450	9,050	15,900
1973	7,440	5,485	550	7,230	1,475	4,565	850	1,630	325	445	10,640	19,355
1974	11,450	8,085	1,600	9,760	2,600	7,115	650	1,565	325	550	16,625	27,075
1975	9,380	9,875	3,725	11,510	3,600	8,270	650	1,510	370	735	17,725	31,900
1976	13,460	12,315	3,900	12,350	3,775	7,635	625	1,555	325	785	22,085	34,640
1977	15,180	17,280	2,300	8,060	3,700	10,965	775	1,895	445	980	22,400	39,180
1978	17,650	20,055	1,350	7,380	4,050	13,275	950	2,290	475	900	24,475	43,900
1979	24,600	24,465	1,450	6,575	4,625	14,385	975	2,775	550	1,225	32,200	49,425
1980	33,100	33,775	2,150	7,725	5,650	16,125	1,300	3,750	700	1,250	42,900	62,625
1981	51,700	41,675	1,725	10,300	7,250	18,325	1,425	3,775	900	1,525	63.000	75,600
1982	52,275	43,400	1,300	7,650	7,550	19,525	1,400	3,700	1,025	1,600	63,550	75,875
1983	37,275	36,575	1,000	7,725	5,100	17,075	1,375	3,300	850	1,500	45,600	66,175
1984	38,050	34,650	975	5,925	4,200	15,700	1,900	3,275	725	1,375	45,850	60,925

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry

Estimated U.S. Exploration & Development Expenditures Chase Manhattan Bank Group and all Other Companies (Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Expenditures by All Other Companies
1947	1,950	991	959
1948	2,300	1,318	982
1949	2,215	1,217	998
1950	2,325	1,157	1,168
1951	2,975	1,620	1,355
1952	3,625	1,855	1,770
1953	3,975	2,014	1,961
1954	4,300	2,180	2,120
1955	4,675	2,383	2,292
1956	5,075	2,621	2,454
1957	5,100	2,673	2,427
1958	4,225	2,241	1,984
1959	4,350	2,455	1,895
1960	4,200	2,412	1,788
1961	4,000	2,417	1,583
1962	4,425	2,848	1,577
1963	4,125	2,452	1,673
1964	4,450	2,817	1,633
1965	4,210	2,847	1,363
1966	4,250	2,990	1,260
1967	4,365	3,212	1,153
1968	5,390	4,087	1,303
1969	5,250	3,768	1,482
1970	4,775	3,119	1,656
1971	3,900	2,740	1,160
1972	6,480	4,225	2,255
1973	8,140	5,275	2,865
1974	12,355	8,550	3,805
1975	10,250	7,007	3,243
1976	14,510	8,711	5,799
1977	16,500	10,159	6,341
1978	19,300	11,378	7,922
1979	26,750	20,616	6,134
1980	36,200	25,053	11,147
1981	56,475	32,765	23,710
1982	55,400	30,902	24,498
1983	40,875	25,537	15,338
1984	41,450	23,010	18,440

SOURCE: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry and Financial Analysis of a Group of Petroleum Companies

U.S. Estimated Expenditures for Exploration Development and Production, Million Dollars(a)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Exploration Expenditures											
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2	8,678.6	13,545.7	12,935.8	7,045.0
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2,579.5	2,885.4	7,036.5	7,899.2	11,188.2	8,163.3	8,052.0
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5	274.7	376.2	458.0	317.0
Geological and geophysical	399.5	567.6	652.8	682.3	833.3	1,028.7	1,218.2	1,871.0	2,823.0	2,997.5	2,540.0
Lease rental	150.7	177.8	204.7	263.7	245.8	285.3	311.6	429.1	600.4	643.7	586.0
Test Hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0	28.0	34.2	47.2	49.0
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5	757.4	999.0	1,192.0	NA
General and administrative	203.6	290.9	341.7	403.8	413.5	488.8	661.7	892.8	1,107.5	1,420.8	2,491.0
TOTAL EXPLORATION(c)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2	20,830.8	30,674.2	27,858.3	21,080.0
Development Expenditures											
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5	10,193.4	16,107.5	15,578.0	18,340.0
Lease equipment	572.2	824.1	1,499.6	1,466.8	1,607:9	2,175.0	2,146.0	3,572.8	4,760.3	5,134.6	3,698.0
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3	3,414.6	972.6	1,511.5	NA
Improved recovery programs	352.5	625.4	928.9	373.4	461.4	639.3	528.3	941.2	1,458.2	1,943.8	1,062.0
Other, incl. direct overhead	(b)	(b)	(b)	973.9	672:3	467.5	544.3	712.5	801.6	740.2	NA
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2	744.4	915.6	950.7	2,068.0
TOTAL DEVELOPMENT(c)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6	19,578.9	25,015.7	25,858.8	25,168.0
Producing Expenditures											
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,567.4	5,277.9	6,152.2	7,295.3	9,461.9	13,505.1	14,405.3	14,457.0
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4	4,564.9	6,638.6	6,605.8	16,860.0
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1,181.3	1,709.8	2,244.8	3,047.8	NA
Other indirect expenses	193.5	252.1	358.0	309.1	435.6	393.6	538.6	6,508.7	20,557.5 (f)	14,008.3 (f)	4,358.0
TOTAL PRODUCTION(c)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6	22,245.2	42,945.8	38,067.2	35,675.0
TOTAL EXPENDITURES(c)	12,694.2	18,706.1	18,558.7	22,568.7	25,725.1	30,373.2	44,686.4	62,655.0	98,635.7	91,784.3	81,923.0

See note and sources at end of table

Section V
Table 9a

U.S. Estimated Expenditures for Exploration Development and Production, Million Dollars(a)

	1984	1985	1986	1987	1988	1989	1990(g)
Exploration Expenditures							
Drilling and equipping wells	7,363.0	6,297.0	3,048.0	2,373.0	3,054.0	2,596.0	NA
Acquiring undeveloped acreage	7,807.0	4,040.0	1,335.0	1,685.0	3,053.0	1,759.0	1,713.0
Land dept. leasing and scouting	379.0	381.0	301.0	228.0	232.0	237.0	297.0
Geological and geophysical	2,619.0	2,392.0	1,244.0	1,194.0	1,276.0	955.0	1,046.0
Lease rental	536.0	541.0	383.0	289.0	267.0	263.0	260.0
Test Hole contributions	75.0	16.0	125.0	4.0	7.0	15.0	7.0
Other, incl. direct overhead	NA	NA	NA	NA	NA	NA	NA
General and administrative	(d) 2,719.0	(d) 2,732.0	(d) 2,060.0	(d) 1,826.0	(d) 1,871.0	(d) 1,677.0	(d) 1,394.0
TOTAL EXPLORATION(c)	21,498.0	16,399.0	8,496.0	7,599.0	9,760.0	7,502.0	7,256.0
Development Expenditures							
Drilling and equipping wells	18,693.0	17,411.0	9,257.0	7,362.0	8,002.0	8,279.0	NA
Lease equipment	4,495.0	5,029.0	3,526.0	2,305.0	2,706.0	2,776.0	2,599.0
Acquiring producing acreage	NA	NA	NA	NA	NA	NA	NA
Improved recovery programs	1,239.0	1,822.0	1,140.0	753.0	1,047.0	920.0	974.0
Other, incl. direct overhead	NA	NA	NA	NA	NA	NA	NA
General and administrative	(d) 2,129.0	(d) 2,974.0	(d) 2,457.0	(d) 1,744.0	(d) 2,442.0	(d) 1,875.0	(d) 1,738.0
TOTAL DEVELOPMENT(c)	26,556.0	27,236.0	16,380.0	12,164.0	14,197.0	13,850.0	13,702.0
Producing Expenditures							
Direct operating expenditures	14,829.0	18,233.0	14,720.0	13,592.0	15,131.0	14,904.0	15,473.0
Taxes, excl. income tax	14,895.0	11,426.0	4,317.0	3,941.0	4,040.0	4,258.0	5,035.0
General and administrative	NA	NA	NA	NA	NA	NA	NA
Other Indirect expenses	(e) 4,187.0	(e) 4,490.0	(e) 4,488.0	(e) 4,550.0	(e) 4,182.0	(e) 4,580.0	(e) 3,688.0
TOTAL PRODUCTION(c)	33,911.0	34,149.0	23,525.0	22,083.0	23,353.0	23,742.0	24,196.0
TOTAL EXPENDITURES(c)	81,965.0	77,784.0	48,401.0	41,846.0	47,310.0	45,094.0	45,154.0

(a) Data not available prior to 1973
(b) Included in improved recovery programs before 1976
(c) Totals do not add due to rounding
(d) Includes Other, including direct overhead.
(e) Includes general and administrative.
(f) Includes Federal Excise taxes.
(g) Work-in-progress not reflected in 1990 totals.

SOURCE: 1973-1982: U.S. Department of Commerce, Bureau of Census, Annual Survey of Oil and Gas.
1983-1989: American Petroleum Institute, Survey of Oil and Gas Expenditures, Annual.

Environmental Protection Expenditures of the Petroleum Industry within the U.S.(a) (Millions of Dollars)

Year	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL EXPENDITURES																	
1. Air..............	$125	$167	$187	$231	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$2,184	$2,311	$2,553
2. Water............	146	191	205	224	303	415	379	402	530	629	822	950	884	1001	1299	1786	1705
3. Land and other..	-	-	-	-	60	101	91	100	150	456	336	383	194	203	357	516	551
TOTAL...........	$271	$358	$392	$455	$683	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$3,840	$4,613	$4,809
CAPITAL EXPENDITURES																	
1. Air..............	$69	$100	$112	$145	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$728	$711	$932
2. Water............	79	114	128	136	163	224	184	194	271	356	411	434	340	394	527	804	745
3. Land and other..	-	-	-	-	34	57	51	52	97	396	269	184	89	92	183	273	282
TOTAL...........	$148	$214	$240	$281	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$1,438	$1,788	$1,959
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES																	
1. Air..............	$43	$50	$53	$62	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$1,392	$1,538	$1,554
2. Water............	57	66	75	84	136	185	187	201	249	262	401	502	532	594	754	960	933
3. Land and other..	-	-	-	-	24	41	37	43	50	55	63	197	101	106	165	231	248
TOTAL...........	$100	$116	$128	$146	$268	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$2,311	$2,729	$2,735
RESEARCH AND DEVELOPMENT EXPENDITURES																	
1. Air..............	$13	$17	$22	$24	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$64	$62	$67
2. Water............	10	11	2	4	4	6	8	7	10	11	10	14	12	13	18	22	27
3. Land and other..	-	-	-	-	2	3	3	5	3	5	4	2	4	5	9	12	21
TOTAL...........	$23	$28	$24	$28	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$91	$96	$115

See notes and sources at end of table

Section V
Table 10a

Environmental Protection Expenditures of the Petroleum Industry within the U.S.(a)
(Millions of Dollars)

Year	1983	1984
TOTAL EXPENDITURES		
1. Air..............	$2,014	$1,870
2. Water............	1552	1572
3. Land and other..	439	504
TOTAL...........	$4,005	$3,946
CAPITAL EXPENDITURES		
1. Air...............	$497	$420
2. Water............	627	595
3. Land and other..	178	211
TOTAL...........	$1,302	$1,226
ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES		
1. Air..............	$1,457	$1,395
2. Water............	901	953
3. Land and other..	243	278
TOTAL...........	$2,601	$2,626
RESEARCH AND DEVELOPMENT EXPENDITURES		
1. Air..............	$60	$55
2. Water............	24	24
3. Land and other..	18	15
TOTAL...........	$102	$94

(a) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

SOURCE: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry

Section V
Table 11

Summary Financial Data for Leading U.S. Oil Companies
(Millions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total Revenue	57,313.5	62,882.9	68,127.1	75,756.7	82,377.0	102,966.5	182,073.9	189,267.0	214,128.3	240,036.2	261,200.9	344,365.7	454,762.4
Deductions:													
Payroll and Benefits	6,070.5	6,593.7	7,074.6	8,041.7	8,646.0	9,206.2	10,607.6	12,416.0	13,294.0	14,729.4	16,705.3	20,040.5	24,653.4
Depreciation Depletion and Amortization	3,906.5	4,178.8	4,570.3	4,899.0	5,169.7	5,729.5	6,675.6	7,537.0	7,540.0	8,581.5	10,101.9	11,773.6	13,937.7
Interest	717.7	931.8	1,076.6	1,195.5	1,276.0	1,390.1	1,601.3	1,638.0	1,926.4	2,645.3	3,058.8	3,439.2	3,655.7
Other Costs and Expenses	32,818.1	36,591.1	39,784.7	43,440.6	47,752.5	59,507.7	121,381.0	128,446.5	152,502.3	170,752.2	184,396.3	246,987.3	328,278.4
Total Taxes	8,304.3	9,070.0	10,335.5	12,373.9	13,800.9	18,168.0	29,249.0	29,911.3	28,029.6	31,983.2	34,718.2	41,561.0	58,388.2
Total Deductions	51,817.1	57,365.4	62,841.7	69,950.7	76,645.1	94,001.5	169,514.6	179,948.8	203,292.7	228,691.6	248,980.5	323,801.6	428,913.4
Net Income	$5,501.8	$5,337.3	$5,482.6	$5,614.5	$5,476.1	$8,992.1	$12,503.4	$9,315.6	$10,853.4	$11,326.1	$12,230.2	$20,573.0	$25,853.6

See notes and sources at end of table

Section V
Table 11a

Summary Financial Data for Leading U.S. Oil Companies
(Millions of Dollars)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total Revenue	504,581.8	459,725.3	418,546.9	403,797.8	391,934.1	287,026.6	314,697.9	325,670.4	348,279.9	412,278.2
Deductions:										
Payroll and Benefits	27,061.5	28,391.1	28,227.2	27,648.4	27,106.5	22,747 8	22,324.1	23,164.5	24,297.6	25,856.3
Depreciation Depletion and Amortization	16,714.9	19,080.4	20,753.2	22,555.7	23,877.2	23,961.5	23,074.4	23,769.6	23,456.7	24,653.7
Interest	4,858.7	4,853 5	4,978.0	6,839.9	8,520.4	8,342.8	7,798.9	8,077.4	8,266.8	8,216.6
Other Costs and Expenses	367,294.4	335,199.5	293,709.5	281,233.8	272,289.4	196,647.4	217,583.2	215,346.3	238,914.7	291,166.7
Total Taxes	64,446.5	53,932.9	51,841.0	49,168.3	46,701.0	30,671.9	35,560.2	38,630.5	38,839.3	46,340.4
Total Deductions	480,376.0	441,457.4	399,508.9	387,446.1	378,494.6	282,371.4	306,912.8	308,988.3	333,775.1	396,233.7
Net Income	$24,205.8	$18,303.4	$19,150.6	$16,351.7	$13,680.5	$4,718.8	$7,912.5	$18,770.1	$14,936.8	16677.9

Effective November 1, 1988, the domestic oil and gas exploration and production business of Sun Company was distributed to the common shareholders of the company. As a result of the distribution, Sun and Sun Exploration and Production (renamed Oryx Energy) became separate and independent companies.

The companies included in current sample are:

Amerada Hess Corporation, Amoco Corporation, Ashland Oil Inc., Atlantic Richfield Co., Chevron Corporation, Diamond Shamrock Corp., Exxon Corporation, FINA, Inc., Kerr-McGee Corporation, Maxus Energy, Mobil Corporation, Murphy Oil Corporation, Occidental Petroleum Corp., Oryx Energy, Pennzoil Company, Phillips Petroleum Corp., Shell Oil Company, Sun Company Inc., Texaco, Inc., Unocal Corporation

SOURCE: Financial Trends of Leading U.S. Oil Companies, 1968-1990 API Discussion Paper #017, November 1991

Section V
Table 12

Capital Expenditures of Leading United States Oil Companies
(Billions of Dollars)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total																	
U.S.	6.2	6.2	6.2	5.7	6.2	7.3	12.8	13.6	15.4	16.0	16.0	20.5	27.6	39.4	35.4	28.4	30.3
World	9.6	9.7	9.6	9.7	10.1	12.0	18.9	20.1	21.3	22.5	24.0	30.6	40.7	53.5	49.8	40.2	41.0
Exploration & Production																	
U.S.	3.2	3.0	2.7	2.4	3.2	4.2	7.7	6.5	8.0	8.4	9.1	13.1	17.5	26.3	22.5	18.9	21.7
World	4.8	4.5	3.9	3.7	4.7	6.0	10.7	10.2	11.5	12.7	14.7	19.8	26.1	35.0	32.1	26.7	28.8
Refining Marketing Transportation																	
U.S.	1.9	2.2	2.6	2.6	2.2	2.0	3.2	4.7	4.2	3.0	2.9	3.5	4.3	6.4	6.1	5.1	4.9
World	3.4	4.0	4.6	5.0	4.3	4.8	6.0	7.1	6.1	4.9	4.7	5.9	7.5	9.6	8.8	7.0	6.7
Total Petroleum																	
U.S.	5.1	5.2	5.3	5.0	5.4	6.2	10.9	11.2	12.2	11.4	12.0	16.6	21.8	32.7	28.6	24.0	26.6
World	8.2	8.5	8.5	8.7	9.0	10.8	16.7	17.3	17.6	17.6	19.4	25.7	33.6	44.6	40.9	33.7	35.5
Chemicals																	
U.S.	0.6	0.5	0.5	0.3	0.4	0.4	0.9	1.4	2.1	2.6	2.2	2.0	2.5	2.6	2.0	1.1	1.0
World	0.8	0.6	0.6	0.5	0.5	0.5	1.1	1.6	2.4	2.7	2.3	2.0	2.5	2.6	2.0	1.7	1.4
Petroleum & Chemicals																	
U.S.	5.7	5.7	5.8	5.3	5.8	6.6	11.8	12.6	14.3	14.0	14.2	18.6	24.3	35.3	30.6	25.1	27.6
World	9.0	9.1	9.1	9.2	9.5	11.3	17.8	18.9	20.0	20.3	21.8	28.0	36.5	48.1	43.9	35.4	36.9
Other Energy																	
U.S.	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.6	0.6	0.9	0.9	0.9	1.4	1.6	2.3	1.0	1.0
World	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.7	1.0	1.0	1.3	1.9	2.4	3.0	2.1	1.6
Total Energy																	
U.S.	5.9	5.9	6.0	5.5	6.0	6.8	12.3	13.2	14.9	14.9	15.1	19.5	25.7	36.9	32.9	26.1	28.6
World	9.2	9.3	9.3	9.4	9.7	11.5	18.4	19.6	20.7	21.3	22.8	29.3	38.4	50.5	46.9	37.6	38.5
Other																	
U.S.	0.3	0.3	0.2	0.2	0.2	0.5	0.5	0.4	0.5	1.1	0.9	1.0	1.9	2.5	2.5	2.3	1.7
World	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.5	0.6	1.2	1.2	1.3	2.3	3.0	2.9	2.7	2.5

See notes and sources at end of table

Section V
Table 12a

Capital Expenditures of Leading United States Oil Companies
(Billions of Dollars)

	1985	1986	1987	1988	1989
Total					
U.S.	28.1	17.6	17.0	24.0	20.5
World	39.4	25.4	25.8	33.9	30.4
Exploration & Production					
U.S.	19.8	10.5	9.6	14.8	10.7
World	27.3	15.5	15.7	21.2	16.6
Refining Marketing Transportation					
U.S.	4.6	3.9	4.1	5.4	5.0
World	6.6	5.4	5.8	7.6	7.5
Total Petroleum					
U.S.	24.4	14.4	13.7	20.2	15.7
World	33.9	20.9	21.5	28.8	24.1
Chemicals					
U.S.	1.3	1.2	1.2	1.9	2.9
World	1.5	1.5	1.6	2.7	3.5
Petroleum & Chemicals					
U.S.	25.7	15.6	14.9	22.1	18.6
World	35.4	22.4	23.1	31.5	27.6
Other Energy					
U.S.	0.6	0.5	0.5	0.5	0.4
World	1.6	1.2	0.9	0.8	1.0
Total Energy					
U.S.	26.3	16.1	15.4	22.6	19.0
World	37.0	23.6	24.0	32.3	28.6
Other					
U.S.	1.8	1.5	1.6	1.4	1.5
World	2.4	1.8	1.8	1.6	1.8

SOURCE: 1968-1979: API, Financial Trends of Leading U.S. Oil Companies 1968-1983, Discussion Paper #017, October 1984.
1980-1987: API, Financial Trends of Leading U.S. Oil Companies 1968-1987, Discussion Paper #017
1988-1989: API, Capital Expenditures of 21 Leading U.S. Oil Companies 1968-1989.

Net Income as a Percent of Stockholders' Equity
Oil and Non-Oil Companies

Year	API-Sample Companies(a)	Non-Petroleum Manufacturing(b)
1968	12.5	14.7
1969	11.4	13.8
1970	10.9	10.0
1971	10.6	11.0
1972	9.9	12.8
1973	15.1	14.5
1974	18.7	13.2
1975	12.8	11.6
1976	13.9	14.0
1977	13.3	14.1
1978	13.3	14.8
1979	20.0	15.1
1980	21.7	12.2
1981	17.8	12.9
1982	12.5	9.7
1983	12.4	12.3
1984	11.0	13.9
1985	10.3	10.7
1986	3.7	11.1
1987	6.2	14.5
1988	14.9	16.4
1989	11.4	14.7
1990	12.6	11.9
Median	12.5	13.2

(a) Net income as a percent of average stockholders' equity
(b) Net income as a percent of average stockholders' equity. Calculations based on Standard & Poor's Compustat data base, All Industrial Aggregate excluding non-manufacturing (e.g. retail) and petroleum industry sectors.
More than 1,500 companies are included in this sample.

Effective November 1, 1988 the domestic oil and gas exploration and production business of Sun Company was distributed to the common shareholders of the company. As a result of the distribution, Sun and Sun Exploration and Production (renamed Oryx Energy) became separate and independent companies. The companies included in current sample are:

Amerada Hess Corporation, Amoco Corp., Ashland Oil, Inc., Atlantic Richfield Co., Chevron Corp., Diamond Shamrock Corp., Exxon Corporation, FINA, Inc. Kerr-McGee Corp., Maxus Energy, Mobil Corp., Murphy Oil Corp., Occidental Petroleum, Oryx Energy, Pennzoil Company, Phillips Petroleum Corp., Shell Oil Company, Sun Company Inc., Texaco Inc., Unocal Corporation

SOURCE: API, Financial Trends of Leading U.S. Oil Companies 1968-1990, Discussion Paper #017R, November 1991.

Windfall Profits Tax
(Millions of Dollars)

Quarter Ending	Tax Before Adjustments	Total Adjustments(a)	Tax After Adjustments
Mar. 1980(b)	788	---	788
June 1980	2,842	-21	2,821
Sept 1980	3,413	-88	3,325
Dec. 1980	3,918	-927	2,991
Mar. 1981	6,953	242	7,195
June 1981	7,253	-107	7,146
Sept 1981	6,344	-251	6,093
Dec. 1981	6,007	-497	5,510
Mar. 1982	5,222	-221	5,001
June 1982	4,283	-295	3,988
Sept 1982	4,404	-445	3,959
Dec. 1982	4,440	-634	3,806
Mar. 1983	3,320	-193	3,127
June 1983	2,951	-203	2,748
Sept 1983	2,822	-300	2,522
Dec. 1983	2,736	-465	2,271
Mar. 1984	2,622	-228	2,394
June 1984	2,468	-218	2,250
Sept 1984	2,447	-200	2,247
Dec. 1984	2,236	-256	1,980
Mar. 1985	1,850	-117	1,733
June 1985	1,653	-132	1,521
Sept 1985	1,442	-146	1,296
Dec. 1985	1,254	-256	998
TOTAL	83,668	-5,958	77,710

(a) Adjustments were made because of errors by withholding agents during previous quarters or more frequently, because of application of the net income limitation.

(b) One month only.

SOURCE: U.S. Treasury Department, Internal Revenue Service, SOI Bulletin.

Section V
Table 15

United States Merchandise Trade Value
(Billions of Dollars)

	Exports (a)			Imports (b)			Trade Balance	
Year	Oil	Total	Oil as % of Total	Oil	Total	Oil as % of Total	Oil	Total
1974	0.792	98.092	0.8	26.073	102.559	25.4	-25.281	-4.467
1975	0.907	107.652	0.8	26.664	98.503	27.1	-25.757	9.149
1976	0.998	115.223	0.9	34.614	123.477	28.0	-33.616	-8.254
1977	1.276	121.232	1.1	44.071	150.390	29.3	-42.795	-29.158
1978	1.561	143.681	1.1	42.188	174.757	24.1	-40.627	-31.076
1979	1.914	181.860	1.1	59.805	209.458	28.6	-57.891	-27.599
1980	2.833	220.626	1.3	78.637	244.871	32.1	-75.804	-24.244
1981	3.696	233.677	1.6	76.659	260.982	29.4	-72.963	-27.305
1982	5.947	212.193	2.8	60.458	243.952	24.8	-54.511	-31.759
1983	4.557	200.486	2.3	53.217	258.048	20.6	-48.660	-57.562
1984	4.470	217.865	2.1	56.924	325.726	17.5	-52.454	-107.861
1985	4.707	213.133	2.2	50.475	345.276	14.6	-45.768	-132.143
1986	3.640	226.808	1.6	35.142	366.063	9.6	-31.502	-139.255
1987	2.837	252.866	1.1	42.285	405.901	10.4	-39.448	-153.035
1988	3.692	321.813	1.1	38.787	441.574	8.8	-35.095	-119.761
1989	4.940	363.812	1.4	49.624	473.211	10.5	-44.684	-109.399
1990	7.646	393.592	1.9	62.160	495.310	12.5	-54.514	-100.997
1991	7.599	421.851	1.8	51.487	488.055	10.5	-43.888	-66.204

(a) Exports are on an f.a.s. (free alongside ship) basis.
(b) Imports are on an f.a.s. basis through 1980. Beginning in 1981, they are on a customs value basis.

SOURCE: U.S. Department of Commerce, Bureau of Census, U.S. Merchandise Trade Report, FT 900

Section V
Table 16

Oil Finding and Development Costs
(Dollars per Barrel)

		Foreign				
Year	U.S.	Foreign Average	Canada	Europe	Other Overseas	Worldwide
1978	6.64	4.15	NA	NA	NA	5.14
1979	11.74	6.66	NA	NA	NA	9.78
1980	10.57	6.17	NA	NA	NA	8.46
1981	11.68	5.59	NA	NA	NA	8.53
1982	9.86	8.66	NA	NA	NA	9.44
1983	9.08	5.25	NA	NA	NA	7.20
1984	6.80	3.94	NA	NA	NA	5.60
1985	9.41	5.34	NA	NA	NA	7.48
1986	6.53	4.57	NA	NA	NA	5.52
1987	4.25	3.57	3.96	3.16	3.69	3.88
1988	3.96	4.82	5.15	5.39	3.92	4.94
1989	3.16	4.56	5.57	5.32	3.65	4.68
1990	3.69	3.57	6.39	3.941	2.93	4.10
1991	3.88	6.12	12.94	11.29	3.63	6.07

SOURCE: Petroleum Outlook by John S. Herold,Inc., 5 Edgewood Avenue, Greenwich, Ct. 06830.

Domestic Outlays for Petroleum Property Acquisitions and Exploration and Development Activities
For 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$541	$410	$344	$398	$337	$135	$169	$257	$1,177	$367
Amoco Corp.	2,869	2,327	2,472	2,827	3,407	1,830	1,815	2,648	1,222	1,235
Anadarko Petroleum	246	242	175	162	144	116	103	142	175	152
Atlantic Richfield	2,328	2,856	2,286	2,654	2,771	1,062	676	1,657	1,137	1,291
British Petroleum	NA	2,637	2,263	2,184	2,047	1,316	732	833	791	940
Burlington Resources	207	417	79	215	303	96	95	388	442	775
Chevron Corp.	4,431	3,367	2,467	2,688	1,806	962	911	3,530	970	1,123
Coastal	120	75	33	109	121	52	43	44	68	123
Consolidated Nat. Gas	163	178	218	272	332	166	222	238	341	156
DuPont (Conoco)	444	812	673	805	849	446	437	779	620	677
Enron	256	345	240	362	187	88	87	146	204	266
Enserch	151	141	148	236	254	142	148	136	265	131
Exxon	4,147	4,043	3,463	4,116	4,396	1,947	1,691	1,948	2,055	1,442
Kerr-McGee	270	325	214	186	257	86	75	185	107	180
Louisiana Land	681	479	275	276	236	105	87	134	97	126
Maxus Energy Corp.	524	601	156	188	255	107	113	99	98	123
Mesa	628	497	277	661	113	24	54	841	43	42
Mobil	2,431	3,265	2,267	1,343	1,413	1,054	789	968	850	981
Murphy	230	222	207	158	114	61	70	93	77	79
Occidental	982	219	379	505	416	274	198	292	229	183
Oryx Energy	958	1,034	808	1,394	871	512	593	640	492	418
Pennzoil	401	393	240	287	482	146	150	171	242	249
Phillips	1,619	1,062	1,768	942	607	309	299	292	326	432
Royal Dutch/Shell	2,647	2,405	2,067	3,034	3,206	2,014	1,685	2,258	1,253	1,410
Santa Fe Energy Resources	322	312	229	240	232	170	304	112	119	118
Texaco	3,186	3,247	2,773	2,037	1,797	1,140	1,056	1,119	1,403	1,222
USX	948	900	1,032	1,403	1,066	440	507	460	492	484
Union Pacific	615	518	357	381	384	211	216	361	339	577
Union Texas Petroleum	201	155	171	294	139	98	115	185	124	148
Unocal	1,003	873	606	835	810	483	436	510	511	1,080
TOTAL	$33,549	$34,357	$28,687	$31,192	$29,352	$15,592	$13,876	$21,466	$16,269	$16,530

SOURCE: Salomon Brothers Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

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Table 18

Domestic Outlays for Petroleum Property Acquisitions For 30 Large Energy Companies (In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$148	$78	$109	$100	$37	$5	$53	$83	$982	$73
Amoco Corp.	298	203	781	718	928	339	356	1,119	112	49
Anadarko Petroleum	64	69	42	40	47	51	40	45	59	39
Atlantic Richfield	318	201	336	428	525	18	49	600	128	151
British Petroleum	NA	833	492	496	224	30	0	64	79	115
Burlington Resources	41	67	14	67	86	25	26	210	223	530
Chevron Corp.	1,281	385	442	281	61	22	42	2,617	25	53
Coastal	35	21	7	69	54	13	17	21	33	63
Consolidated Nat. Gas	39	16	49	48	148	20	60	70	195	30
DuPont (Conoco)	118	135	194	222	140	47	121	361	170	113
Enron	65	66	48	196	61	37	24	72	58	106
Enserch	19	17	31	77	55	17	22	37	187	18
Exxon	1,258	539	808	1,311	445	106	690	305	388	64
Kerr-McGee	58	45	87	34	136	11	30	116	21	75
Louisiana Land	128	61	39	44	41	28	11	19	26	19
Maxus Energy Corp.	126	211	0	35	40	8	15	11	23	26
Mesa	156	89	66	533	24	11	32	808	5	1
Mobil	598	1,087	690	0	93	62	65	194	58	53
Murphy	104	69	89	37	13	21	22	42	13	10
Occidental	171	44	68	45	42	44	24	31	40	14
Oryx Energy	178	129	216	592	153	81	159	152	108	36
Pennzoil	95	96	85	117	308	42	43	46	47	75
Phillips	800	148	1,056	341	25	13	28	10	36	32
Royal Dutch/Shell	627	422	367	1,256	1,277	496	323	862	162	87
Santa Fe Energy Resources	61	62	82	41	47	59	188	13	21	14
Texaco	543	692	865	399	125	59	104	111	516	89
USX	243	121	316	618	161	37	133	33	73	63
Union Pacific	145	92	99	54	54	7	55	45	58	161
Union Texas Petroleum	18	14	37	140	39	20	29	53	17	32
Unocal	192	174	127	274	121	24	38	84	37	467
TOTAL	$7,927	$6,186	$7,642	$8,613	$5,510	$1,753	$2,799	$8,234	$3,900	$2,658

SOURCE: Salomon Brothers Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Domestic Outlays for Petroleum Exploration for 30 Large Energy Companies (In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$268	$148	$110	$163	$197	$90	$75	$83	$102	$134
Amoco Corp.	1,334	1,191	1,047	1,299	1,359	710	643	673	487	419
Anadarko Petroleum	92	81	62	59	41	27	29	37	51	52
Atlantic Richfield	853	886	849	996	785	341	232	323	384	483
British Petroleum	NA	460	500	592	689	285	256	187	177	209
Burlington Resources	50	132	42	97	71	30	23	46	37	40
Chevron Corp.	1,496	1,371	1,007	997	685	351	294	353	353	382
Coastal	22	34	9	15	20	4	8	7	12	16
Consolidated Nat. Gas	73	103	85	73	64	65	89	87	62	65
DuPont (Conoco)	138	288	251	269	284	177	145	140	157	214
Enron	82	140	106	62	35	17	19	33	35	54
Enserch	41	44	50	66	77	51	40	41	33	47
Exxon	954	932	780	1,032	1,108	491	333	471	345	379
Kerr-McGee	105	192	67	93	95	50	30	36	55	40
Louisiana Land	271	176	124	125	111	42	42	71	41	73
Maxus Energy Corp.	173	170	69	80	92	45	37	42	41	55
Mesa	177	134	102	67	45	7	5	5	9	9
Mobil	996	1,207	798	523	504	282	167	330	236	345
Murphy	91	109	95	81	66	28	35	32	26	49
Occidental	552	106	184	184	150	86	55	65	43	21
Oryx Energy	203	327	173	255	236	166	156	214	156	149
Pennzoil	115	95	59	66	58	22	31	62	56	47
Phillips	404	397	344	317	234	130	128	101	146	150
Royal Dutch/Shell	611	637	631	614	716	458	438	490	392	438
Santa Fe Energy Resources	120	72	47	63	58	29	35	32	33	32
Texaco	1,062	1,240	871	851	603	339	264	352	243	283
USX	304	347	297	291	263	93	122	166	137	150
Union Pacific	147	157	129	166	130	78	74	92	100	151
Union Texas Petroleum	84	76	70	104	56	44	37	80	53	72
Unocal	281	268	198	223	231	127	130	158	180	171
TOTAL	$11,099	$11,520	$8,156	$9,823	$9,063	$4,665	$3,972	$4,809	$4,182	$4,729

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Domestic Outlays for Petroleum Development for 30 Large Energy Companies (In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$125	$184	$125	$135	$103	$40	$41	$91	$93	$160
Amoco Corp.	1,237	933	644	810	1,120	781	816	856	623	767
Anadarko Petroleum	90	92	71	63	56	38	34	60	65	61
Atlantic Richfield	1,157	1,769	1,101	1,230	1,461	703	395	734	625	657
British Petroleum	NA	1,344	1,271	1,096	1,134	1,001	476	582	535	616
Burlington Resources	116	218	23	51	146	41	46	132	182	205
Chevron Corp.	1,654	1,611	1,018	1,410	1,060	589	575	560	592	688
Coastal	63	20	17	25	47	35	18	16	23	44
Consolidated Nat. Gas	51	59	84	151	120	81	73	81	84	61
DuPont (Conoco)	188	389	228	314	425	222	171	278	293	350
Enron	109	139	86	104	91	34	44	41	111	106
Enserch	91	80	67	93	122	74	86	58	45	66
Exxon	1,935	2,572	1,875	1,773	2,843	1,350	668	1,172	1,322	999
Kerr-McGee	107	88	60	59	26	25	15	33	31	65
Louisiana Land	282	242	112	107	84	35	34	44	30	34
Maxus Energy Corp.	225	220	87	73	123	54	61	46	84	42
Mesa	295	274	109	61	44	6	17	28	29	32
Mobil	837	971	779	820	816	710	557	444	556	583
Murphy	35	44	23	40	35	12	13	19	38	20
Occidental	259	69	127	276	224	144	119	196	146	148
Oryx Energy	577	578	419	547	482	265	278	274	228	233
Pennzoil	191	202	96	104	116	82	76	63	139	127
Phillips	415	517	368	284	348	166	143	181	144	250
Royal Dutch/Shell	1,409	1,346	1,069	1,164	1,213	1,060	924	906	699	885
Santa Fe Energy Resources	141	178	100	136	127	82	81	67	65	72
Texaco	1,581	1,315	1,037	787	1,069	742	688	656	644	850
USX	401	432	419	494	642	310	252	261	282	271
Union Pacific	323	269	129	161	200	126	87	224	181	265
Union Texas Petroleum	99	65	64	50	44	34	49	52	54	44
Unocal	530	431	281	338	458	332	268	268	294	442
TOTAL	$14,523	$16,651	$11,889	$12,756	$14,779	$9,174	$7,105	$8,423	$8,187	$9,143

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Worldwide Outlays for Petroleum Property Acquisitions and Exploration and Devel for 30 Large Energy Companies
(In Millions of Dollars)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$991	$812	$645	$675	$705	$266	$358	$718	$1,547	$1,668
Amoco Corp.	4,031	3,546	3,482	4,056	4,865	2,723	2,638	6,792	2,540	2,785
Anadarko Petroleum	251	244	177	168	154	120	109	148	180	159
Atlantic Richfield	2,525	3,243	2,812	3,119	3,154	1,475	929	2,800	1,532	1,825
British Petroleum	NA	4,395	3,496	3,350	3,488	2,855	2,297	4,925	3,306	3,827
Burlington Resources	207	417	79	215	303	96	95	388	442	775
Chevron Corp.	5,938	4,955	3,882	3,783	2,642	1,624	1,608	4,331	1,949	2,059
Coastal	120	75	33	109	121	52	43	44	68	123
Consolidated Nat. Gas	163	178	218	272	332	166	222	238	341	156
DuPont (Conoco)	629	1,341	1,175	1,303	1,325	954	1,113	1,561	1,354	1,749
Enron	354	435	276	464	247	102	101	171	233	309
Enserch	154	164	167	246	269	147	151	141	269	137
Exxon	6,824	6,940	5,648	6,536	6,924	3,792	4,614	4,365	6,702	4,119
Kerr-McGee	459	466	312	279	360	149	154	274	327	277
Louisiana Land	803	602	369	354	321	140	137	172	130	173
Maxus Energy Co.	818	1,070	278	436	439	271	194	189	185	309
Mesa	636	509	277	661	113	24	54	841	43	42
Mobil	3,777	4,835	3,550	2,232	2,261	1,800	1,497	1,807	1,722	2,200
Murphy	303	325	318	275	230	104	125	145	135	147
Occidental	1,735	691	737	800	888	583	384	510	522	662
Oryx Energy	958	1,034	808	1,394	871	512	593	640	492	1,679
Pennzoil	424	419	262	330	523	165	174	182	255	264
Phillips	2,251	1,684	2,309	1,258	893	485	497	487	596	777
Royal Dutch/Shell	5,755	5,447	4,485	5,362	6,324	4,242	3,712	4,901	6,103	4,941
Santa Fe Energy Resources	322	312	229	240	232	170	304	112	119	118
Texaco	4,089	4,194	3,570	2,836	2,391	1,703	1,544	1,813	1,787	1,921
USX	1,541	1,372	1,500	1,822	1,588	791	805	712	737	859
Union Pacific	615	518	357	381	384	211	216	361	339	577
Union Texas Petroleum	427	398	366	486	368	206	170	282	243	397
Unocal	1,358	1,411	1,163	1,309	1,245	708	708	882	924	1,514
TOTAL	$48,458	$52,032	$42,980	$44,751	$43,960	$26,636	$25,546	$40,932	$35,122	$36,548

SOURCE: Salomon Brothers, Inc. Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Section V
Table 22

Domestic Oil and Gas Finding Costs Excluding Property Acquisition Costs(a) for 30 Large Energy Companies
(Dollars Per Barrel of Oil Equivalent)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$5.75	$19.53	$28.78	$11.25	$13.85	$6.05	$3.80	$5.17	$9.44	$4.72
Amoco Corp.	6.77	7.62	4.52	6.30	9.11	NM	3.77	6.65	5.05	5.35
Anadarko Petroleum	23.74	6.29	7.06	5.59	3.40	1.67	4.73	4.93	5.48	4.43
Atlantic Richfield	8.60	5.46	7.28	4.21	NM	3.15	1.38	3.23	3.76	4.37
British Petroleum	NA	NA	9.37	3.62	49.49	NM	1.54	5.87	3.62	2.45
Burlington Resources	8.16	21.88	0.19	6.94	8.19	32.77	5.38	1.13	5.52	3.44
Chevron Corp.	13.56	14.03	7.49	4.56	8.07	13.09	5.16	4.06	4.35	5.12
Coastal	4.81	3.77	1.58	3.33	6.81	26.00	NM	2.56	4.57	2.55
Consolidated Nat. Gas	7.15	14.29	2.82	7.68	4.72	4.66	4.93	6.63	6.39	10.80
DuPont (Conoco)	7.41	6.02	6.22	7.05	9.62	39.90	3.50	3.88	3.03	7.44
Enron	36.97	18.20	12.39	6.51	2.92	1.74	6.30	4.67	3.81	5.78
Enserch	4.63	7.22	5.48	2.42	3.47	3.23	4.64	6.91	2.08	4.95
Exxon	5.96	9.24	4.82	6.15	9.99	6.16	NM	6.08	10.25	4.09
Kerr-McGee	21.93	21.54	14.11	91.20	23.42	NM	6.28	2.44	6.97	7.88
Louisiana Land	13.71	10.90	6.10	11.23	7.36	4.44	11.69	4.83	4.73	5.53
Maxus Energy Corp.	10.47	29.62	17.02	7.46	10.93	3.76	6.32	6.21	8.33	4.81
Mesa	12.10	3.84	10.55	5.82	1.51	NM	1.01	6.00	4.15	1.89
Mobil	5.95	9.56	7.30	6.79	9.55	4.34	3.45	2.49	2.94	4.92
Murphy	12.60	16.39	6.00	10.68	13.47	18.46	4.17	2.94	4.63	4.27
Occidental	10.86	75.00	13.23	5.49	6.43	2.41	2.59	9.73	3.74	3.07
Oryx Energy	9.47	11.01	11.31	8.25	6.39	13.40	9.50	5.59	4.21	4.55
Pennzoil	7.65	3.96	7.38	9.36	6.69	28.36	7.73	3.18	9.44	3.77
Phillips	7.38	7.11	7.75	4.47	14.92	14.32	3.27	2.94	1.97	2.17
Royal Dutch/Shell	8.79	6.58	6.05	6.15	6.40	6.84	4.29	5.82	3.74	5.59
Santa Fe Energy Resources	14.37	12.30	7.23	9.87	8.47	6.59	6.00	1.49	1.66	3.88
Texaco	17.68	20.91	18.03	68.73	12.23	9.41	4.18	2.83	3.53	3.39
USX	10.96	11.05	9.40	7.52	5.20	4.62	6.23	9.60	8.16	6.79
Union Pacific	5.34	8.81	6.62	7.55	7.95	NM	NM	4.80	4.84	6.86
Union Texas Petroleum	12.34	35.25	12.56	10.87	5.13	8.67	5.49	6.14	6.17	4.90
Unocal	10.86	9.73	5.04	6.79	7.57	8.01	4.89	7.04	5.07	5.40
TOTAL	$8.84	$11.07	$6.30	$5.97	$16.90	$13.49	$6.11	$4.31	$4.32	$4.35

NM = Not meaningful
Finding Costs = Outlays for Petroleum Exploration and Development/Reserves Additions from Extensions and Discoveries, improved recovery and revisions

(a) This table reflects oil and gas finding costs excluding property acquisition costs, which gives a more accurate assessment of true finding costs.

SOURCE: Salomon Brothers, Inc., Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

Worldwide Oil and Gas Finding Costs Excluding Property Acquisition Costs(a) for 30 Large Energy Companies
(Dollars Per Barrel of Oil Equivalent)

Company	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Amerada Hess	$8.50	$34.86	$16.85	$18.39	$10.48	$3.15	$2.75	$2.70	$10.60	$6.58
Amoco Corp.	5.20	7.80	5.72	7.23	6.96	34.13	3.97	7.94	6.13	4.79
Anadarko Petroleum	22.32	6.18	7.04	5.11	3.43	1.71	4.29	4.00	5.54	4.56
Atlantic Richfield	8.61	4.99	6.64	4.78	NM	3.76	1.79	4.19	5.15	3.86
British Petroleum	NA	NM	6.26	2.66	6.20	NM	2.46	11.03	11.92	5.71
Burlington Resources	8.16	21.88	0.19	6.94	8.19	32.77	5.38	1.13	5.52	3.44
Chevron Corp.	10.70	8.96	5.64	5.58	5.76	12.06	4.92	4.20	5.28	4.76
Coastal	4.81	3.77	1.58	3.33	6.81	26.00	NM	2.56	4.57	2.55
Consolidated Nat. Gas	7.15	14.29	2.82	7.68	4.72	4.66	4.93	6.63	6.39	10.80
DuPont (Conoco)	8.69	8.66	5.60	5.03	6.81	NM	3.79	5.27	4.89	9.46
Enron	14.92	13.19	7.09	8.35	NM	2.07	6.17	4.36	3.83	5.88
Enserch	4.58	7.93	6.04	2.57	3.67	3.45	4.82	6.65	2.19	5.17
Exxon	10.22	5.79	3.97	5.53	6.24	6.32	NM	5.09	5.22	8.93
Kerr-McGee	38.10	30.80	7.67	NM	16.69	NM	16.17	4.67	4.18	3.79
Louisiana Land	16.37	12.34	7.53	7.42	12.78	6.05	7.00	4.70	6.31	3.28
Maxus Energy Corp.	10.18	21.22	7.69	5.71	11.08	4.82	4.81	1.69	2.89	17.50
Mesa	11.95	3.91	10.13	5.30	1.53	NM	1.01	6.00	4.15	1.89
Mobil	2.70	18.98	4.87	6.24	10.49	3.31	3.76	2.58	2.86	3.57
Murphy	8.89	7.93	7.93	9.82	11.94	NM	3.61	7.87	4.55	5.95
Occidental	18.94	12.50	7.19	2.67	3.90	2.22	2.07	3.96	3.19	6.75
Oryx Energy	9.47	11.01	11.31	8.25	6.39	13.40	9.50	5.59	4.21	4.43
Pennzoil	7.81	4.22	7.98	11.14	7.20	22.23	8.56	3.33	10.80	4.16
Phillips	14.07	8.83	6.14	5.49	27.49	2.20	2.44	1.91	2.61	2.12
Royal Dutch/Shell	7.87	11.24	4.30	3.39	8.63	4.92	2.38	3.28	3.15	0.86
Santa Fe Energy Resources	14.37	12.30	7.23	9.87	8.47	6.59	6.00	1.49	1.66	3.88
Texaco	8.28	22.79	12.35	21.36	8.63	6.56	3.86	3.46	3.16	3.78
USX	14.89	16.12	5.44	9.60	6.70	7.86	5.90	6.56	7.23	2.97
Union Pacific	5.34	8.81	6.62	7.55	7.95	NM	NM	4.80	4.84	6.86
Union Texas Petroleum	12.70	NM	6.35	9.27	9.23	4.81	4.01	4.75	6.99	8.26
Unocal	7.73	34.79	7.85	7.79	6.03	5.22	3.62	5.49	3.86	3.79
TOTAL	$7.57	$10.85	$5.35	$5.28	$9.76	$8.74	$4.18	$4.31	$4.57	$2.85

NA = Not Available
NM = Not Meaningful
Finding Costs = Outlays for Petroleum Exploration and Development/Reserves Additions from extensions & discoveries, improved recovery and revisions

(a) This table reflects oil and gas finding costs excluding property acquisition costs, which gives a more accurate assessment of true finding costs.

SOURCE: Salomon Brothers, Inc., Proved Petroleum Reserves of 30 Large Energy Companies, 1990 and 1991 editions.

BASIC PETROLEUM DATA BOOK

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Section VI
Table 1

Average Annual Wellhead Price of United States Crude Oil
Current and Constant 1982 Dollars
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(a) (1982 = 100)	Price in 1982 Constant Dollars
1947	$1.93	25.6	7.54
1948	2.60	27.7	9.39
1949	2.54	26.3	9.66
1950	2.51	27.3	9.19
1951	2.53	30.4	8.32
1952	2.53	29.6	8.55
1953	2.68	29.2	9.18
1954	2.78	29.3	9.49
1955	2.77	29.3	9.45
1956	2.79	30.3	9.21
1957	3.09	31.2	9.90
1958	3.01	31.6	9.53
1959	2.90	31.7	9.15
1960	2.88	31.7	9.09
1961	2.89	31.6	9.15
1962	2.90	31.7	9.15
1963	2.89	31.6	9.15
1964	2.88	31.6	9.11
1965	2.86	32.3	8.85
1966	2.88	33.3	8.65
1967	2.92	33.4	8.74
1968	2.94	34.2	8.60
1969	3.09	35.6	8.68
1970	3.18	36.9	8.62
1971	3.39	38.1	8.90
1972	3.39	39.8	8.52
1973	3.89	45.0	8.64
1974	6.74	53.5	12.60
1975	7.56	58.4	12.95
1976	8.14	61.1	13.32
1977	8.57	64.9	13.20
1978	8.96	69.9	12.82
1979	12.51	78.7	15.90
1980	21.59	89.8	24.04
1981	31.77	98.0	32.42
1982	28.52	100.0	28.52
1983	26.19	101.3	25.85
1984	25.88	103.7	24.96
1985	24.09	103.2	23.34
1986	12.51	100.2	12.49
1987	15.40	102.8	14.98

See notes and sources at end of table

Section VI
Table 1a

Average Annual Wellhead Price of United States Crude Oil
Current and Constant 1982 Dollars
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities(a) (1982 = 100)	Price in 1982 Constant Dollars
1988	12.58	106.9	11.77
1989	15.86	112.2	14.14
1990	20.03	116.3	17.22
1991	16.50	116.5	14.16

(a) For 1976 and prior years figures are for Wholesale Price Index.

SOURCE: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

Average Annual Wellhead Price of United States Natural Gas
Current and Constant 1982 Cents
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index All Commodities(b) (1982 = 100)	Price in 1982 Constant Cents
1947	6.0	25.6	23.4
1948	6.5	27.7	23.5
1949	6.3	26.3	24.0
1950	6.5	27.3	23.8
1951	7.3	30.4	24.0
1952	7.8	29.6	26.4
1953	9.2	29.2	31.5
1954	10.1	29.3	34.5
1955	10.4	29.3	35.5
1956	10.8	30.3	35.6
1957	11.3	31.2	36.2
1958	11.9	31.6	37.7
1959	12.9	31.7	40.7
1960	14.0	31.7	44.2
1961	15.1	31.6	47.8
1962	15.5	31.7	48.9
1963	15.8	31.6	50.0
1964	15.4	31.6	48.7
1965	15.6	32.3	48.3
1966	15.7	33.3	47.1
1967	16.0	33.4	47.9
1968	16.4	34.2	48.0
1969	16.7	35.6	46.9
1970	17.1	36.9	46.3
1971	18.2	38.1	47.8
1972	18.6	39.8	46.7
1973	21.6	45.0	48.0
1974	30.4	53.5	56.8
1975	44.5	58.4	76.2
1976(b)	58.0	61.1	94.9
1977	79.0	64.9	121.7
1978	90.5	69.9	129.5
1979	117.8	78.7	149.7
1980	159.0	89.8	177.1
1981	198.0	98.0	202.0
1982	246.0	100.0	246.0
1983	259.0	101.3	255.7
1984	266.0	103.7	256.5
1985	251.0	103.2	243.2
1986	194.0	100.2	193.6
1987	167.0	102.8	162.5

See notes and sources at end of table

Section VI
Table 2a

Average Annual Wellhead Price of United States Natural Gas
Current and Constant 1982 Cents
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index All Commodities(b) (1982 = 100)	Price in 1982 Constant Cents
1988	169.0	106.9	158.1
1989	169.0	112.2	150.6
1990	172.0	116.3	147.9
1991	159.0	116.5	136.5

(a) For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i.
For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.
(b) For 1976 and prior years, figures are for Wholesale Price Index.

SOURCE: Current Price, U.S. Energy Information Administration.
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1968(a)	3.21	2.90	3.17
1969	3.37	2.80	3.29
1970	3.46	2.96	3.40
1971	3.68	3.17	3.60
1972	3.67	3.22	3.58
1973	4.17	4.08	4.15
1974	7.18	12.52	9.07
1975	8.39	13.93	10.38
1976	8.84	13.48	10.89
1977	9.55	14.53	11.96
1978	10.61	14.57	12.46
1979	14.27	21.67	17.72
1980	24.23	33.89	28.07
1981	34.33	37.05	35.24
1982	31.22	33.55	31.87
1983	28.87	29.30	28.99
1984	28.53	28.88	28.63
1985	26.66	26.99	26.75
Jan.	26.89	27.49	27.02
Feb.	26.35	26.99	26.49
Mar.	26.60	27.20	26.76
Apr.	26.79	27.59	27.03
May	26.91	27.60	27.12
Jun.	26.60	27.25	26.76
Jul.	26.60	26.57	26.59
Aug.	26.46	26.61	26.50
Sep.	26.41	26.56	26.45
Oct.	26.60	26.79	26.66
Nov.	26.73	27.12	26.86
Dec.	26.93	26.21	26.72
1986	14.82	14.00	14.55
Jan.	25.94	24.93	25.63
Feb.	20.31	18.11	19.76
Mar.	15.02	14.22	14.80
Apr.	13.01	13.15	13.05
May	12.99	13.17	13.05
Jun	13.12	12.25	12.83
Jul.	11.44	10.91	11.26
Aug.	11.97	11.87	11.93
Sep.	13.29	12.85	13.13
Oct.	13.20	12.78	13.05
Nov.	13.22	13.46	13.30
Dec.	13.66	14.17	13.84

See notes and sources at end of table

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1987	17.76	18.13	17.90
Jan.	16.01	16.45	16.16
Feb.	16.77	16.98	16.83
Mar.	16.93	17.26	17.04
Apr.	17.21	17.89	17.44
May	17.63	18.25	17.85
Jun	18.33	18.71	18.47
Jul	19.04	19.26	19.13
Aug.	19.39	19.32	19.36
Sep.	18.57	18.57	18.57
Oct.	18.36	18.53	18.43
Nov.	17.94	18.14	18.02
Dec.	17.02	17.20	17.09
1988	14.74	14.56	14.67
Jan.	15.80	15.45	15.68
Feb.	15.58	15.43	15.53
Mar.	14.91	14.73	14.84
Apr.	15.87	15.62	15.77
May	16.35	15.93	16.18
Jun	15.74	15.50	15.65
Jul	14.64	14.81	14.71
Aug.	14.36	14.32	14.34
Sep.	13.96	13.84	13.91
Oct.	12.90	13.05	12.96
Nov.	12.61	12.66	12.63
Dec.	13.88	14.11	13.98
1989	17.87	18.08	17.97
Jan.	15.50	16.04	15.73
Feb.	16.11	16.61	16.32
Mar.	17.34	17.77	17.52
Apr.	18.91	19.59	19.22
May	19.01	19.05	19.03
Jun.	18.56	18.27	18.43
Jul.	18.32	17.99	18.18
Aug.	17.23	17.23	17.23
Sep.	17.70	17.62	17.66
Oct.	18.20	18.29	18.24
Nov.	18.45	18.32	18.39
Dec.	19.16	20.05	19.54

See notes and sources at end of table

Refiner Acquisition Cost of Crude Oil
(Dollars per Barrel)

Year	Domestic	Imported	Composite
1990	22.59	21.76	22.22
Jan.	20.75	20.51	20.64
Feb.	20.75	19.78	20.31
Mar.	19.32	18.94	19.14
Apr.	17.37	16.66	17.05
May	16.45	16.07	16.27
Jun.	15.06	15.15	15.11
Jul.	15.86	16.54	16.19
Aug.	22.96	24.26	23.55
Sep.	30.14	29.88	30.03
Oct.	33.32	32.88	33.14
Nov.	30.75	30.19	30.52
Dec.	26.46	25.56	26.09
1991	19.33	18.70	19.05
Jan.	23.25	22.41	22.90
Feb.	19.53	18.30	19.02
Mar.	18.12	17.59	17.89
Apr.	18.56	18.27	18.43
May	18.98	18.14	18.60
Jun.	18.16	17.78	17.98
Jul.	18.91	18.14	18.57
Aug.	19.10	18.71	18.92
Sep.	19.31	19.00	19.17
Oct.	20.39	19.92	20.18
Nov.	20.01	19.35	19.72
Dec.	17.84	17.17	17.56
1992			
Jan.	16.75	16.10	16.47
Feb.	16.49	16.00	16.28
Mar.	16.81	16.36	16.62

(a) Not available prior to 1968.

SOURCE: U.S. Department of Energy, Annual Energy Review and Monthly Energy Review.

Trend of Wholesale Prices of Commodities used in Petroleum Production
(1982=100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1947	12.5	NA	NA	NA
1948	13.5	NA	NA	NA
1949	14.3	NA	NA	NA
1950	14.6	NA	NA	NA
1951	16.1	NA	NA	NA
1952	16.1	NA	NA	NA
1953	16.8	NA	NA	NA
1954	17.4	18.2	15.3	11.3
1955	18.1	19.3	16.1	12.1
1956	19.2	22.1	17.2	13.3
1957	20.6	24.5	19.1	15.1
1958	20.7	25.3	19.9	15.7
1959	20.7	25.2	20.3	16.0
1960	20.7	25.0	20.3	16.0
1961	21.0	24.7	19.8	15.6
1962	21.3	24.8	19.5	15.4
1963	21.2	25.4	19.7	15.5
1964	21.5	24.9	20.3	16.0
1965	21.6	23.5	21.3	16.8
1966	21.9	23.5	21.3	16.8
1967	22.7	24.0	22.1	17.1
1968	24.2	25.0	22.5	17.6
1969	25.6	26.2	23.1	18.2
1970	27.0	27.2	24.2	19.0
1971(a)	27.9	29.9	26.7	21.0
1972	28.9	32.1	28.4	22.4
1973	30.3	33.4	29.5	23.3
1974	35.9	45.5	37.8	31.0
1975	44.6	54.7	46.8	37.7
1976	49.5	56.3	49.4	41.0
1977	53.8	62.5	54.1	46.2
1978	59.5	71.2	60.1	51.3
1979	65.8	72.8	63.2	54.3
1980	76.3	80.7	72.3	62.8
1981	91.1	94.6	90.2	85.9
1982	100.0	100.0	100.0	100.0
1983	97.4	97.5	89.9	78.0
1984	96.6	97.3	85.4	71.4
1985	96.8	97.2	84.4	66.1
1986	94.3	96.7	78.6	61.6
1987	93.3	97.3	81.2	NA
1988	97.0	99.6	87.4	NA
1989	99.1	92.4	88.7	65.2

See notes and sources at end of table

Trend of Wholesale Prices of Commodities used in Petroleum Production
(1982=100)

Year	Oil Field Machinery and Tools	Line Pipe Carbon	Oil Well Casing Carbon	Oil Well Casing Alloy
1990	102.4	NA	NA	NA

NA = Not available
(a) For 1971 and prior years figures are for Wholesale Price Index

SOURCE: U.S. Bureau of Labor Statistics, Producer Price Index

Trend of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

	Retail Price of Regular Grade Gasoline			Price Indexes of Some Other Consumer Items(a)				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Entertainment(b)
	Cents per Gallon			Index: 1982-84 = 100				
1947	16.93	6.18	23.11	22.3	24.1	25.8	39.9	28.0
1948	19.54	6.34	25.88	24.1	26.1	27.5	42.5	29.4
1949	20.27	6.52	26.79	23.8	25.0	28.7	40.8	30.5
1950	20.08	6.68	26.76	24.1	25.4	29.7	40.3	30.3
1951	20.31	6.84	27.15	26.0	28.2	30.9	43.9	31.2
1952	20.04	7.32	27.36	26.5	28.7	32.2	43.5	31.3
1953	21.28	7.41	28.69	26.7	28.3	33.9	43.1	31.6
1954	21.56	7.48	29.04	26.9	28.2	35.1	43.1	31.3
1955	21.42	7.65	29.07	26.8	27.8	35.6	42.9	31.2
1956	21.57	8.36	29.93	27.2	28.0	36.3	43.7	31.7
1957	32.11	8.85	30.96	28.1	28.9	37.0	44.5	32.8
1958	21.47	8.91	30.38	28.9	30.2	37.6	44.6	34.1
1959	21.18	9.31	30.49	29.1	29.7	38.2	45.0	34.7
1960	20.99	10.14	31.13	29.6	30.0	38.7	45.7	35.5
1961	20.53	10.23	30.76	29.9	30.4	39.2	46.1	36.3
1962	20.36	10.28	30.64	30.3	30.6	39.7	46.3	37.2
1963	20.11	10.31	30.42	30.6	31.1	40.1	46.9	37.8
1964	19.98	10.37	30.35	31.0	31.5	40.5	47.3	38.7
1965	20.70	10.45	31.15	31.6	32.2	40.9	47.8	39.0
1966	21.57	10.51	32.08	32.5	33.8	41.5	49.0	39.7
1967	22.55	10.61	33.16	33.4	34.1	42.2	51.0	40.7
1968	22.93	10.78	33.71	34.8	35.3	43.3	53.7	43.0
1969	23.85	10.99	34.84	36.7	37.1	44.7	56.8	45.2
1970	24.55	11.14	35.69	38.8	39.2	46.5	59.2	47.5
1971	25.20	11.23	36.43	40.5	40.4	48.7	61.1	50.0
1972	24.46	11.67	36.13	42.1	123.5	50.4	62.3	51.5
1973	26.88	11.94	38.82	48.2	141.4	52.5	64.6	52.9
1974	40.11	12.30	52.41	55.1	161.7	55.2	69.4	56.9
1975	44.82	12.40	57.22	53.8	59.8	58.0	72.5	62.0
1976	46.97	12.50	59.47	56.9	61.6	61.1	75.2	65.1
1977	50.47	12.60	63.07	60.6	65.5	64.8	78.6	68.3
1978	53.01	12.70	65.71	65.2	72.0	69.3	81.4	71.9
1979	74.59	13.20	87.79	72.6	79.9	74.3	84.9	76.7
1980	105.30	13.80	119.10	82.4	86.8	80.9	90.9	83.6
1981	116.60	14.50	131.10	90.9	93.6	87.9	95.3	90.1
1982	107.30	14.90	122.20	96.5	97.4	94.6	97.8	96.0
1983	96.40	19.30	115.70	99.6	99.4	100.1	100.2	100.1
1984	91.50	21.40	112.90	103.9	103.2	105.3	102.1	103.8
1985	89.50	22.00	111.50	107.6	105.6	111.8	105.0	107.9
1986	63.00	22.70	85.70	109.7	109.0	118.3	105.9	111.6
1987	66.20	23.50	89.70	113.7	113.5	123.1	110.6	115.3
1988	65.85	24.10	89.95	118.3	118.2	127.8	115.4	120.3

See notes and sources at end of table

Section VI
Table 5a

Trend of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services

	Retail Price of Regular Grade Gasoline			Price Indexes of Some Other Consumer Items(a)				
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Entertainment(b)
	Cents per Gallon			Index: 1982-84 = 100				
1989	74.90	25.10	100.00	124.0	125.1	132.8	118.6	126.5
1990	88.00	26.90	114.90	130.7	132.4	138.4	124.1	132.4
1991(c)	81.20	32.80	114.00	136.2	136.3	143.3	128.7	138.4

(a) Beginning in July 1978, the CPI was given in two forms, CPI-U and CPI-W. The index used above is CPI-U.

(b) Represented "Reading and Recreation" prior to July 1978.

(c) Beginning in 1991, retail gasoline prices are for regular unleaded gasoline.

SOURCE: 1947-1978: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-1980: Retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
1981-1991: Retail price of gasoline, Bureau of Labor Statistics
Price indexes: U.S. Department of Labor, Bureau of Labor Statistics

United States Annual Average Retail Price of #2 Home Heating Oil

Year	Cost per Gallon(a) (current cents)	Consumer Price Index (1982-84 = 100)	Cost Per Gallon (constant cents)
1956 (b)	15.21	27.2	55.92
1957	15.98	28.1	56.87
1958	15.07	28.9	52.15
1959	15.29	29.1	52.54
1960	15.02	29.6	50.74
1961	15.62	29.9	52.24
1962	15.62	30.2	51.72
1963	15.97	30.6	52.19
1964	16.06	31.0	51.81
1965	16.04	31.5	50.92
1966	16.43	32.4	50.71
1967	16.91	33.4	50.63
1968	17.44	34.8	50.11
1969	17.82	36.6	48.69
1970	18.48	38.8	47.63
1971	19.63	40.5	48.47
1972	19.72	41.8	47.18
1973	22.75	44.4	51.24
1974	36.01	49.3	73.04
1975	38.98	53.8	72.45
1976	41.80	56.9	73.46
1977	47.37	60.6	78.17
1978	50.80 (e)	65.2	77.91
1979	72.80	72.6	100.28
1980	100.97	82.4	122.54
1981	124.66	90.9	137.14
1982	120.86	96.5	125.24
1983	110.12	99.6	110.56
1984	111.97	103.9	107.77
1985	107.55	107.6	99.95
1986	83.45	109.6	76.14
1987	85.15	113.6	74.96
1988	84.63	118.3	71.54
1989	88.76	124.0	71.58
1990	108.74	130.7	83.20
1991	101.82	136.2	74.76

(a) Includes all applicable taxes.
(b) Data prior to 1956 is not available on a comparable basis.
(e) Estimate.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics
BLS Monthly prices averaged by API to derive annual average price

Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead

	Value (Thousand dollars)		Production (Trillion BTU)		Price at Wellhead (Cents per million BTU)		Price at Wellhead (1982 constant cents per million BTU)	
Year	Oil(a)	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1947	$3,577,890	$274,709	10,771	5,012	33.2	5.5	129.7	21.4
1948	5,245,080	333,173	11,717	5,615	44.8	5.9	161.7	21.4
1949	4,674,770	344,034	10,683	5,911	43.8	5.8	166.5	22.1
1950	4,963,380	408,521	11,449	6,841	43.4	6.0	159.0	21.9
1951	5,690,410	542,964	13,037	8,106	43.6	6.7	143.4	22.0
1952	5,785,230	623,649	13,282	8,705	43.6	7.2	147.3	24.2
1953	6,327,100	774,966	13,671	9,116	46.3	8.5	158.6	29.1
1954	6,424,930	882,501	13,427	9,488	47.9	9.3	163.5	31.7
1955	6,870,380	978,357	14,445	10,532	47.6	9.3	162.5	31.7
1956	7,296,760	1,083,812	15,344	11,252	47.6	9.6	157.1	31.8
1957	8,079,259	1,201,759	15,346	11,885	52.6	10.1	168.6	32.4
1958	7,379,973	1,317,521	14,154	12,244	52.1	10.8	164.9	34.1
1959	7,473,336	1,556,800	14,662	13,361	51.0	11.7	160.9	36.8
1960	7,420,181	1,789,970	14,664	14,135	50.6	12.7	159.6	39.9
1961	7,565,582	1,996,241	15,185	14,691	49.8	13.6	157.6	43.0
1962	7,774,051	2,145,301	15,495	15,365	50.2	14.0	158.4	44.0
1963	7,965,743	2,328,030	15,741	16,271	50.6	14.3	160.1	45.3
1964	8,017,078	2,387,689	15,691	17,138	51.1	13.9	161.7	44.1
1965	8,158,298	2,494,542	15,930	17,652	51.2	14.1	158.5	43.8
1966	8,726,423	2,702,759	16,925	18,984	51.6	14.2	155.0	42.8
1967	9,375,727	2,898,741	18,100	20,087	51.8	14.4	155.1	43.2
1968	9,794,826	3,168,688	18,593	21,548	52.7	14.7	154.1	43.0
1969	10,426,680	3,455,615	18,886	22,838	55.2	15.1	155.1	42.5
1970	11,173,726	3,745,680	20,401	24,154	54.8	15.5	148.5	42.0
1971	11,692,998	4,085,482	20,033	24,805	58.4	16.5	153.3	43.2
1972	11,706,510	4,180,462	20,041	24,792	58.4	16.9	146.7	42.4
1973	13,057,905	4,894,072	19,493	24,746	67.0	19.8	148.9	43.9
1974	21,580,549	6,573,402	18,575	23,689	116.2	27.7	217.2	51.9
1975	23,116,059	8,945,062	17,729	20,531	130.4	43.6	223.3	74.6
1976	24,229,540	11,571,776	17,262	20,371	140.4	56.8	229.8	93.0
1977	25,790,722	15,824,954	17,454	20,025	147.8	79.0	227.7	121.8
1978	28,477,824	18,084,914	18,420	20,393	154.4	88.7	220.9	126.9
1979	39,051,332	24,113,634	18,064	20,901	216.7	115.4	275.3	146.6
1980	65,722,016	32,043,704	18,249	20,482	360.2	156.4	401.1	174.2
1981	99,396,384	39,551,253	18,147	22,011	547.8	179.7	559.0	183.4
1982	90,029,512	45,496,765	18,309	20,502	491.7	221.9	491.7	221.9
1983	82,745,734	43,614,369	18,325	18,757	451.5	232.5	445.7	229.5
1984	84,102,132	48,404,611	18,848	20,217	446.2	239.4	430.3	230.9
1985	78,851,236	43,182,598	18,992	19,124	415.2	225.8	402.3	218.8
1986	39,634,833	32,607,825	18,376	18,638	215.7	175.0	215.3	174.6
1987	46,960,095	28,888,630	17,675	19,292	265.7	149.7	258.5	145.7
1988	37,478,151	30,170,751	17,279	19,786	216.9	152.5	202.9	142.6

See notes and sources at end of table

Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead

	Value (Thousand dollars)		Production (Trillion BTU)		Price at Wellhead (Cents per million BTU)		Price at Wellhead (1982 constant cents per million BTU)	
Year	Oil(a)	Gas	Oil	Gas	Oil	Gas	Oil	Gas
1989	44,043,552	30,575,912	16,117	19,975	273.3	153.1	243.6	136.4
1990	53,774,280	31,658,176	15,571	20,548	345.3	154.5	296.9	132.8

(a) Beginning in 1981, dollar value computed by API based on wellhead price times production.

SOURCE: 1947-1975: Dollar value and production, U.S. Bureau of Mines
1976-1980: Dollar value and production, U.S. Energy Information Administration
1981-1989: Production and wellhead price, U.S. Energy Information Administration
U.S. Bureau of Labor Statistics, Producer Price Index
Constant price at wellhead computed by the American Petroleum Institute

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	2.75	2.59	2.59
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	1.58	2.20	2.79	3.04	3.04
Arizona(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas	1.82	2.48	2.48	2.46	2.48	2.46	2.60	2.73	2.71	2.69	2.92	2.82	2.77	2.77	2.75	2.66	2.66
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46	2.43	2.50	2.48
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90	2.88	2.88	2.88
Florida(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96	2.99	2.98	2.98
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94	2.98	2.98	2.96
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90	2.89	2.91	2.91
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85	2.97	2.95	2.92
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14	3.15	3.15	3.12
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91	2.92	2.85	2.85
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83	2.82	2.78	2.76
Missouri(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana	1.94	2.58	2.58	2.52	2.47	2.25	2.16	2.20	2.26	2.58	2.70	2.65	2.56	2.41	2.42	2.42	2.44
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87	2.85	2.83	2.83
Nevada(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85	2.86	2.88	2.88
New York(b)	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64	4.76	4.60	4.59
North Dakota	-	-	-	-	-	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71	2.72	2.75	2.73
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97	3.09	3.10	3.15
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92	2.91	2.92	2.91
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55	4.71	4.57	4.56
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96	2.97	2.99	2.97
Utah	-	-	-	-	-	-	-	-	-	-	2.27	2.99	2.86	2.74	2.75	2.74	2.72
Virginia(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07	4.14	4.00	3.99
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51	2.50	2.49	2.50
Other states	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.90	2.93	2.94	2.45	2.31	2.10	2.06
U.S. TOTAL	1.93	2.60	2.54	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90	2.88	2.89	2.90	2.89

See notes and sources at end of table

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	2.60	2.61	2.60	2.65	2.67	2.70	2.84	3.00	3.07	3.58	8.54	10.13	10.57	9.67	10.52	11.79	20.57
Alaska	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03	6.14	5.23	10.25	16.52
Arizona(b)	-	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29	12.30
Arkansas	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	10.63	14.72	24.17
California	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	8.58	12.78	23.87
Colorado	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	10.84	13.28	22.91
Florida(b)	-	-	-	-	-	-	-	-	3.18	4.59	9.66	11.71	11.24	11.67	12.00	13.07	18.84
Illinois	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.81	23.49	35.78
Indiana	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.70	23.28	35.91
Kansas	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	21.57	34.20
Kentucky	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.55	34.98
Louisiana	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.03	11.42	19.87
Michigan	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	11.86	14.47	23.54
Mississippi	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	7.91	10.74	20.85
Missouri(b)	-	-	-	-	-	-	-	-	-	-	-	-	13.30	12.50	12.25	25.68	37.75
Montana	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.04	12.03	20.53
Nebraska	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	18.13	30.60
Nevada(b)	-	-	-	-	-	-	-	-	-	-	-	-	10.35	11.50	12.00	11.54	16.65
New Mexico	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.17	14.33	24.06
New York(b)	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	14.74	23.78	37.39
North Dakota	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	9.75	13.64	26.42
Ohio	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.80	22.79	36.64
Oklahoma	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	11.30	17.53	29.25
Pennsylvania	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.72	24.13	37.46
South Dakota	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.16	15.35	28.81
Tennessee(b)	-	-	-	-	-	-	-	-	-	-	9.44	11.51	13.72	13.75	12.70	20.26	34.29
Texas	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.65	21.84
Utah	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41	19.79
Virginia(b)	-	-	-	-	-	-	-	-	-	-	-	-	11.68	12.50	12.50	24.80	37.21
West Virginia	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.48	23.35	36.92
Wyoming	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	11.73	21.34
Other states	2.12	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	5.77	6.33	-	-	-	-	-
U.S. TOTAL	2.88	2.86	2.88	2.92	2.94	3.09	3.18	3.39	3.39	3.89	6.74	7.56	8.15	8.57	9.00	12.64	21.59

See notes and sources at end of table

United States Average Wellhead Value per Barrel of Crude Oil by State

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	35.80	32.32	30.07	29.39	25.77	13.91	16.80	13.86	17.14	22.10
Alaska	23.60	20.08	17.92	18.13	17.12	6.71	10.83	8.43	11.93	15.60
Arizona(b)	24.00	31.00	30.00	28.00	27.00	15.15	17.35	14.57	18.30	23.38
Arkansas	33.69	30.12	28.28	28.15	25.79	14.54	17.23	14.41	17.21	21.55
California	26.80	24.58	22.61	22.09	22.14	11.90	13.92	10.97	13.98	17.80
Colorado	35.69	31.56	28.92	28.09	25.64	13.98	17.71	14.83	18.72	23.16
Florida(b)	25.00	32.00	31.10	31.00	29.00	23.13	16.05	16.43	11.75	18.25
Illinois	36.03	31.69	29.12	28.76	26.90	14.70	17.53	14.79	18.24	23.36
Indiana	36.07	31.66	29.06	28.72	26.82	14.55	17.49	14.78	18.26	23.46
Kansas	35.80	30.79	28.45	27.99	25.33	14.02	17.37	14.55	18.04	23.21
Kentucky	35.90	31.19	28.60	28.24	26.20	14.20	17.19	14.58	18.23	23.20
Louisiana	35.45	32.44	30.02	29.67	27.22	15.32	17.97	15.22	18.21	23.03
Michigan	35.74	31.80	28.93	28.54	26.16	14.61	17.63	14.92	17.95	22.90
Mississippi	30.47	29.04	26.76	27.26	25.51	13.63	16.78	13.98	16.87	21.04
Missouri(b)	34.38	31.25	31.20	27.50	25.00	15.25	17.25	14.50	17.75	21.50
Montana	34.69	31.25	28.80	28.07	25.29	13.58	16.57	13.84	16.91	21.59
Nebraska	35.32	30.98	28.58	27.83	25.42	13.70	17.08	14.08	17.23	21.94
Nevada(b)	23.96	23.95	23.80	25.80	26.00	12.00	11.50	12.50	15.80	17.30
New Mexico	35.04	31.82	29.26	28.69	26.84	14.93	17.57	14.78	17.73	22.43
New York(b)	34.15	30.91	28.19	27.70	25.19	16.03	17.40	16.00	17.70	23.32
North Dakota	35.63	31.89	29.27	28.39	25.32	13.54	16.76	13.85	16.99	21.93
Ohio	36.11	30.90	28.14	27.71	25.11	15.51	17.42	15.19	18.01	23.09
Oklahoma	35.43	32.04	29.67	29.11	26.28	14.47	17.62	14.86	18.11	22.92
Pennsylvania	36.03	30.77	28.28	27.71	25.05	15.77	17.43	15.26	18.12	23.00
South Dakota	35.55	31.63	29.10	28.36	25.79	13.81	16.96	14.04	17.19	22.32
Tennessee(b)	33.00	32.10	32.00	29.00	26.00	15.00	15.84	13.99	18.00	19.72
Texas	35.06	31.77	29.35	28.87	26.80	14.73	17.55	14.71	17.68	22.36
Utah	34.14	30.50	28.12	27.21	23.98	13.33	17.22	14.24	18.48	22.61
Virginia(b)	36.25	32.35	32.25	27.28	24.75	15.00	15.75	13.95	18.17	22.00
West Virginia	35.63	29.98	27.27	26.90	24.35	14.68	16.56	14.35	17.13	22.16
Wyoming	32.30	29.37	27.19	26.73	24.67	12.94	16.45	13.47	16.60	21.05
Other states	-	-	-	-	-	-	-	-	-	-
U.S. TOTAL	31.77	28.52	26.19	25.88	24.09	12.51	15.40	12.58	15.74	20.03

(a) Data represent the average first purchase prices of crude at the lease or wellhead.
(b) Prices for these states included in "other states" from 1947-1975. 1976-1989, they were estimated by the IPAA

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements
1976-1989: U.S. Energy Information Administration

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	-	-	-	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3	7.4	9.8	11.8
Alaska	-	-	-	-	-	-	-	-	-	-	-	12.0	12.0	12.2	20.4	21.4	24.7
Arizona	-	-	-	-	-	-	-	-	-	14.0	-	-	-	-	-	11.9	12.1
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9	13.5	14.9	15.5
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7	28.3	29.0	29.3
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9	11.6	11.6	11.7
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2	18.9	20.7	20.0
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5	12.8	14.3	12.9
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8	20.1	21.1	23.4
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7	12.5	12.4	13.3
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4	24.8	24.8	23.9
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1	18.7	19.7	19.8
Maryland	-	-	-	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6	27.2	27.0	26.9
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4	21.1	21.3	27.1
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8	18.6	19.0	18.0
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	-	-	25.0	24.7	25.0	27.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1	7.4	7.4	7.5
Nebraska	-	-	-	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5	16.7	18.2	18.8
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7	10.9	11.5	11.9
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9	29.5	28.1	29.5
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4	12.6	13.7	19.1
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5	24.9	25.6	24.2
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9	12.1	12.8	13.0
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8	29.4	27.2	26.0
South Dakota	6.0	6.5	6.3	-	5.0	5.0	5.0	5.0	-	-	-	-	-	-	-	-	-
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5	18.3	18.5	18.9
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3	12.3	12.3	12.5
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0	15.7	16.8	18.2
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1	27.1	27.1	23.4
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2	27.4	27.5	26.6
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0	12.5	14.6	14.2
Total	6.0	6.5	6.3	6.5	7.3	7.8	9.2	10.1	10.4	10.8	11.3	11.9	12.9	14.0	15.1	15.5	15.8

See notes and sources at end of table

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5	147.0	150.0	203.9	318.6
Alaska	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9	40.2	52.1	51.8	73.2
Arizona	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2	33.5	37.0	41.3	NA
Arkansas	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0	58.5	75.0	95.9	69.6
California	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0	116.9	135.7	170.5	217.0
Colorado	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0	81.0	84.0	141.0	147.0
Florida	13.5	12.9	14.2	14.8	15.2	15.7	-	29.9	32.0	34.3	53.6	97.3	98.2	108.9	139.0	157.2	173.0
Illinois	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5	120.0	129.0	186.1	190.0
Indiana	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0	69.0	71.0	105.4	135.0
Kansas	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0	48.5	57.0	75.6	77.2
Kentucky	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0	55.0	58.0	94.7	89.3
Louisiana	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0	70.3	83.6	111.5	160.7
Maryland	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3	39.0	61.4	103.6	45.6
Michigan	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5	101.0	119.7	174.0	235.5
Mississippi	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0	73.0	114.6	160.0	231.7
Missouri	24.3	24.5	-	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5	42.0	-	-	-
Montana	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5	71.9	84.7	121.1	145.4
Nebraska	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3	65.2	68.0	85.0	82.9
New Mexico	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5	81.0	98.8	136.6	175.8
New York	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0	116.0	119.0	126.6	194.9
North Dakota	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0	35.3	46.2	128.0	118.8
Ohio	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8	139.7	157.0	180.5	197.7
Oklahoma	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2	79.0	90.2	112.4	150.7
Oregon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213.0	240.0
Pennsylvania	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5	80.0	86.0	132.6	212.7
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210.7	NA
Tennessee	19.5	19.0	-	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0	74.0	164.0	170.0	176.0
Texas	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8	90.3	99.5	123.4	156.5
Utah	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5	61.2	64.3	71.6	111.7
Virginia	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0	126.0	131.3	168.1	285.0
West Virginia	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0	61.0	65.8	105.0	300.0
Wyoming	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0	64.0	79.3	113.0	192.0
Total	15.4	15.6	15.7	16.0	16.4	16.7	17.1	18.2	18.6	21.6	30.4	44.5	58.0	79.0	90.5	117.8	159.0

See notes and sources at end of table

United States Average Wellhead Value of Natural Gas by State
(cents per thousand cubic feet)

STATE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	477.0	344.0	428.0	373.0	371.0	289.0	297.0	265.0	272.0	275.0
Alaska	62.0	63.0	73.0	73.0	74.0	50.0	94.0	127.0	136.0	138.0
Arizona	NA	259.0	308.0	290.0	NA	NA	NA	NA	180.0	120.0
Arkansas	181.0	213.0	229.0	254.0	255.0	251.0	229.0	194.0	241.0	206.0
California	257.0	309.0	357.0	380.0	336.0	289.0	237.0	239.0	232.0	236.0
Colorado	197.0	317.0	338.0	343.0	290.0	205.0	176.0	159.0	152.0	155.0
Florida	271.0	246.0	233.0	257.0	243.0	120.0	168.0	153.0	205.0	225.0
Illinois	247.0	262.0	284.0	278.0	277.0	257.0	224.0	219.0	215.0	211.0
Indiana	208.0	155.0	209.0	338.0	251.0	123.0	171.0	157.0	171.0	201.0
Kansas	92.0	151.0	157.0	149.0	127.0	121.0	115.0	136.0	144.0	156.0
Kentucky	101.0	152.0	151.0	170.0	239.0	188.0	182.0	256.0	213.0	224.0
Louisiana	207.0	260.0	267.0	273.0	266.0	221.0	178.0	181.0	182.0	183.0
Maryland	48.0	78.0	55.0	55.0	59.0	65.0	55.0	93.0	85.0	114.0
Michigan	286.0	319.0	358.0	376.0	360.0	360.0	324.0	318.0	316.0	300.0
Mississippi	321.0	391.0	378.0	347.0	317.0	213.0	194.0	186.0	197.0	176.0
Missouri	-	-	-	375.0	350.0	375.0	375.0	375.0	350.0	157.0
Montana	191.0	215.0	241.0	246.0	239.0	205.0	180.0	170.0	155.0	179.0
Nebraska	145.0	199.0	293.0	224.0	301.0	282.0	242.0	266.0	223.0	226.0
New Mexico	213.0	247.0	268.0	271.0	262.0	187.0	166.0	170.0	156.0	169.0
New York	267.0	375.0	385.0	400.0	337.0	339.0	200.0	230.0	220.0	220.0
North Dakota	194.0	230.0	227.0	226.0	190.0	135.0	130.0	200.0	178.0	179.0
Ohio	217.0	271.0	324.0	319.0	308.0	284.0	258.0	255.0	255.0	254.0
Oklahoma	188.0	274.0	283.0	272.0	247.0	171.0	147.0	155.0	159.0	157.0
Oregon	260.0	333.0	333.0	278.0	240.0	200.0	145.0	160.0	140.0	139.0
Pennsylvania	233.0	280.0	300.0	325.0	316.0	250.0	225.0	215.0	240.0	235.0
South Dakota	275.0	308.0	337.0	367.0	251.0	246.0	271.0	195.0	111.0	156.0
Tennessee	255.0	300.0	250.0	350.0	248.0	178.0	131.0	150.0	165.0	165.0
Texas	187.0	217.0	236.0	245.0	233.0	165.0	147.0	151.0	153.0	157.0
Utah	110.0	306.0	340.0	408.0	352.0	290.0	188.0	239.0	158.0	170.0
Virginia	215.0	369.0	330.0	300.0	302.0	245.0	208.0	208.0	219.0	230.0
West Virginia	300.0	320.0	310.0	345.0	385.0	390.0	385.0	305.0	311.0	319.0
Wyoming	277.0	322.0	318.0	332.0	301.0	252.0	176.0	153.0	124.0	116.0
Total	198.0	246.0	259.0	266.0	251.0	194.0	167.0	169.0	169.0	171.0

SOURCE: 1947-1975: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals
1976-1990: U.S. Energy Information Administration, Natural Gas Annuals.

Posted Prices of Key Foreign Crude Oils(a)
(U.S. Dollars per barrel)

CRUDE & GRAVITY		1970	1971(b)	1972	1973(b)				1974			1975		1977		1979
		31 Aug	15 Feb	20 Jan	1 Jan	1 Oct	16 Oct	1 Nov	1 Jan	1 July	1 Nov	1 Jan	1 Oct	1 Jan	1 July	1 Jan
PERSIAN/ARABIAN GULF CRUDES																
Saudi Arabia																
Arab Light	**34o**	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66	14.34
Arab Berri	**39**	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22	14.93
Arab Medium	**31**	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25	13.91
Arab Heavy	**27**	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92	13.57
Iran																
Iran Light	**34**	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77	14.45
Iran Heavy	**31**	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43	14.10
Kuwait																
Kuwait	**31**	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	NA	NA	NA
Abu Dhabi																
Murban	**39**	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26	14.97
Marine (Umm Shaif)		37.00	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.72
Zakum	**40**	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16	14.87
Iraq																
Basrah	**35**	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	NA	NA	NA
Qatar																
Dukhan	**40**	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18	14.89
Marine	**36**	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.98	13.98	14.68
Oman																
Oman	**34**	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98	14.68
MEDITERRANEAN & AFRICAN CRUDES																
Saudi Arabia																
Arab Light	**34**	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	NA	NA	NA
Iraq																
Kirkuk	**36**	2.21	2.41	3.40	3.48	4.24	7.21	7.29	NA	NA	NA	NA	NA	NA	NA	NA
Libya																
Libya	**40**	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.06	18.25	18.78	19.72
Nigeria																
Nigeria	**34**	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	NA	NA	NA
VENEZUELAN CRUDES (Reference Prices)																
Venezuela																
Tia Juana	**26**	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	NA	NA	NA
Tia Juana	**31**	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	NA	NA	NA
Oficina	**35**	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	NA	NA	NA

NA = Not Available

(a) Postings in effect on dates shown or thereabouts. Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

(b) Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.

Note: This series has been discontinued.

SOURCE: Petroleum Intelligence Weekly

Official Government Selling Prices of Key Foreign Crude Oils(a)
(Dollars per Barrel)

	1974				1975			1976		1977		1979		
CRUDE & GRAVITY	1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July	1 Jan.	1 Apr.	1 July
PERSIAN / ARABIAN CRUDES														
Saudi Arabia														
Arab Light	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70	13.34	14.55	18.00
Arab Berri	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22	14.06	16.47	21.32
Arab Medium	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32	12.89	14.05	17.54
Arab Heavy	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02	12.51	13.64	17.17
Iran														
Iran Light	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81	13.45	16.57	22.00 (e)
Iran Heavy	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49	13.06	16.04	19.90 (e)
Kuwait														
Kuwait	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27	12.83	15.80	19.49
Abu Dhabi														
Murban	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26	14.10	17.10	21.56
Umm Shaif	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04	13.78	16.88	21.36
Zakum	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17	14.01	17.01	21.46
Iraq														
Basrah	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46	12.65	12.65 (e)	13.29	15.70	19.96
Kirkuk	NA	NA	NA	NA	NA	NA	11.60	11.65	11.70	12.89	12.85 (e)	13.52	15.95	21.25
Qatar														
Dukhan	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19	14.03	17.04	21.42
Marine	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00	13.77	16.85	21.23
Oman														
Oman	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70	12.74	13.00	13.65 (e)	14.88 (e)	NA
MEDITERRANEAN AND AFRICAN CRUDES														
Iraq														
Kirkuk	NA	NA	NA	NA	10.67	11.74	11.95	NA	NA	NA	13.50	NA	NA	NA
Libya														
Brega	NA	NA	NA	NA	11.20	12.32	12.32	12.32	12.62	13.92	14.20	14.69	18.25	23.45
Nigeria														
Bonny	NA	NA	NA	NA	11.43	12.60	12.84	12.89	13.10	14.33	14.63	14.80	18.50	23.49
OTHER CRUDES														
Indonesia														
Sumatra Light	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55	14.23 (e)	15.51 (e)	NA
Venezuela														
Tia Juana	NA	NA	NA	NA	11.62	11.39	11.12	11.22	11.65	12.72	12.71	13.36	15.76	19.31
Tia Juana	NA	NA	NA	NA	11.05	12.06	12.30	12.30	12.30	12.35	13.54	14.22	16.70	20.90
Oficina	NA	NA	NA	NA	11.49	12.54	12.80	12.80	12.80	13.99 (b)	NA	14.69	17.21	22.45
Ecuador														
Oriente	NA	NA	NA	NA	NA	NA	NA	11.60	11.60	13.00	13.00	13.18	20.60	NA

See notes and sources at end of table

Official Government Selling Prices of Key Foreign Crude Oils(a)
(Dollars per Barrel)

CRUDE & GRAVITY	1980		1981		1982	1983	1985	1987
	1 Jan.	1 June	19 Feb.	1 Nov.	1 Jan.	Mar.	Feb.	Feb.
Saudi Arabia								
Arab Light	26.00	28.00	32.00	34.00	34.00	29.00	28.00	17.52
Arab Berri	27.52	29.52	33.52	35.60	35.40	29.50	28.11	17.87
Arab Medium	25.45	27.45	31.45	33.00	32.40	27.40	27.40	16.92
Arab Heavy	25.00	27.00	31.00	31.50	31.00	26.00	26.50	16.27
Iran								
Iran Light	28.50	35.37	37.00	34.60	34.20	28.00	28.05	17.50
Iran Heavy	27.77	34.37	36.00	33.40	32.30	27.30 (e)	27.35	16.89
Kuwait								
Kuwait	25.50	29.50	35.50	33.00	32.30	27.30	27.30	16.67
Abu Dhabi								
Murban	27.56	31.56	36.56	35.70	35.50	29.56	28.15	17.92
Umm Shaif	27.36	31.36	36.36	35.50	35.30	29.36	28.05	17.30
Zakum	27.46	31.46	36.46	35.60	35.40	29.46	28.10	17.82
Iraq								
Basrah	25.96	29.96	35.96	34.67	32.65 (e)	28.46 (e)	NA	17.30
Kirkuk	26.18	30.18	37.50	35.11	34.93	29.83	NA	17.60
Qatar								
Dukhan	27.42	31.42	37.42	35.65	35.45	29.49	28.10	17.82
Marine	27.23	31.23	37.23	35.50	35.30	29.30	28.05	17.67
Oman								
Oman	30.26	35.56	37.56	34.06	35.06	30.06	NA	17.63
Iraq								
Kirkuk	NA	NA	NA	NA	NA	NA	NA	NA
Libya								
Brega	34.67	36.67	41.00	37.50	37.00	30.50	NA	18.67
Nigeria								
Bonny	29.99	36.71	40.02	36.52	36.52	30.00	28.67	18.92
Indonesia								
Sumatra Light	27.50	31.50	35.00	35.00	35.00	29.53	28.53	17.56
Venezuela								
Tia Juana	25.20	29.28	32.88	32.88	32.88	27.88	27.60	16.72
Tia Juana	26.90	32.40	36.00	35.00	35.00	29.84	28.24	17.62
Oficina	28.75	34.25	38.06	37.06	37.06	31.09	28.80	NA
Ecuador								
Oriente	31.00	NA	39.30 (e)	33.15	33.25	28.25	NA	17.02

(e) Estimates by PIW

NA = Not available

(a) These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining and equity interest in Middle East oil producing ventures.

(b) Estimate by Petroleum Economist, October 1977

SOURCE: Petroleum Intelligence Weekly

Average United States Retail Gasoline Prices for Selected Cities(a)

	1920	1930	1940	1950	1960	1970	1971	1972	1973	1974	1975	1976	1977
Average U.S.	29.83	19.95	18.41	26.76	31.13	35.69	36.43	36.13	38.82	52.41	57.22	59.47	63.07
Alabama, Birmingham	30.04	20.50	21.71	29.33	31.23	35.23	35.62	36.79	38.57	51.67	53.15	58.25	64.00
Arizona, Phoenix	32.50	20.71	21.25	26.47	26.57	35.07	35.90	35.40	38.28	51.32	57.73	60.48	63.65
Arkansas, Little Rock	30.42	17.63	20.83	29.17	29.48	34.32	35.57	34.65	36.98	50.66	57.34	60.32	64.40
California, Los Angeles	-	-	-	-	29.57	34.15	35.32	34.47	38.04	52.28	57.88	60.49	64.23
California, San Francisco	24.17	20.00	17.88	25.12	32.23	35.82	35.82	35.30	39.07	53.30	59.46	61.49	65.15
Colorado, Denver	31.42	19.50	18.38	26.46	33.40	33.73	36.48	35.15	38.87	52.25	58.18	61.23	64.07
Connecticut, Hartford	33.00	19.13	14.48	23.63	29.32	36.98	37.82	37.65	40.98	54.63	57.57	59.99	63.83
District of Columbia	29.46	17.23	15.08	25.36	30.32	35.73	36.05	37.65	39.07	54.33	58.48	60.40	64.31
Florida, Miami(d)	29.25	21.50	19.33	28.03	31.40	35.07	34.65	35.98	38.15	51.31	54.98	57.15	58.82
Georgia, Atlanta	30.04	22.17	20.42	29.71	31.87	35.01	36.23	36.15	38.57	52.59	58.23	58.99	63.65
Idaho, Boise	33.63	26.41	24.18	30.65	37.42	35.07	34.98	35.11	39.95	53.34	59.82	62.22	65.48
Illinois, Chicago	27.17	18.17	15.58	23.30	31.90	38.62	37.60	36.36	40.61	54.74	58.60	60.90	65.74
Indiana, Indianapolis	-	-	-	-	30.73	37.23	37.57	35.56	39.26	53.17	59.08	59.70	62.74
Iowa, Des Moines	27.42	18.33	16.78	25.08	31.57	35.32	36.32	37.23	38.45	51.17	57.32	60.33	64.79
Kansas, Wichita	26.80	15.30	14.99	24.70	29.15	32.98	32.98	32.40	37.78	51.17	57.32	61.33	63.49
Kentucky, Louisville	-	-	-	-	32.80	36.65	37.48	37.28	40.31	53.83	58.20	61.25	64.90
Louisiana, New Orleans	27.75	15.17	20.66	30.17	29.07	35.73	35.57	34.06	36.48	49.74	56.09	60.40	63.74
Maryland, Baltimore	29.58	18.77	17.88	25.74	31.65	35.65	36.07	37.65	39.23	51.21	56.70	58.48	62.46
Massachusetts, Boston	32.63	17.96	14.19	24.18	26.98	35.73	36.57	35.98	39.07	52.40	55.98	58.23	61.16
Michigan, Detroit	28.12	18.28	15.53	25.17	30.93	33.82	34.35	34.23	39.53	53.86	59.42	57.65	62.07
Mississippi, Jackson	-	-	-	-	32.23	35.48	37.52	34.91	38.48	52.09	54.17	57.15	62.29
Missouri, St. Louis	27.58	17.07	16.43	23.04	27.15	34.07	36.15	35.65	39.20	52.17	57.65	59.48	63.40
Montana, Great Falls	-	-	-	-	36.90	36.36	36.57	35.23	39.95	53.17	59.42	60.85	65.44
Nebraska, Omaha	27.25	20.08	17.97	26.75	32.53	37.82	37.40	37.48	40.03	53.17	59.40	63.15	66.15
New Hampshire, Manchester	32.04	21.12	16.02	24.97	30.07	36.40	38.23	37.65	40.07	54.48	56.48	59.40	62.98
New Jersey, Newark	29.88	17.12	15.78	23.18	28.32	37.40	38.07	36.32	38.57	52.30	54.73	55.65	59.40
New Mexico, Albuquerque	32.25	21.00	19.92	30.25	32.90	36.73	36.90	36.48	38.29	52.65	58.98	59.53	63.59
New York, Buffalo	30.92	18.07	16.30	26.15	27.92	36.11	36.28	37.15	40.07	55.38	58.65	61.37	64.61
New York, New York	31.92	17.36	16.11	26.50	31.40	36.93	39.18	44.56	43.73	59.75	61.15	61.81	64.31
North Carolina, Charlotte	31.33	20.94	20.32	29.37	31.03	35.32	37.36	37.31	39.32	51.99	56.76	60.42	61.95
Ohio, Cincinnati	-	-	-	-	31.40	36.65	37.90	37.90	38.65	53.36	57.19	57.23	60.65
Ohio, Cleveland	-	-	-	-	32.32	36.65	37.90	37.80	38.65	53.36	57.19	57.23	60.40
Oklahoma, Tulsa	27.75	19.25	14.58	26.75	30.48	35.07	35.07	34.73	37.53	50.33	56.44	59.46	63.74
Oregon, Portland	26.79	20.96	20.38	27.98	33.65	35.32	35.82	35.48	38.39	51.70	55.50	57.23	61.49
Pennsylvania, Philadelphia	32.00	20.58	15.49	25.19	28.48	36.48	37.23	36.74	37.90	52.88	53.90	56.73	61.40
Rhode Island, Providence	32.63	17.48	14.66	24.08	27.06	36.23	36.90	36.15	38.32	52.57	55.90	58.57	62.15
South Carolina, Charleston	29.17	20.86	20.10	28.07	30.94	34.32	35.73	36.65	38.40	52.88	54.39	57.90	61.23
Tennessee, Memphis	29.00	19.04	22.22	28.22	29.65	35.57	35.48	35.48	37.48	50.51	57.17	59.65	64.07
Texas, Dallas	-	-	-	-	29.23	32.73	33.9	33.15	34.37	47.17	53.53	56.4	59.9
Texas, El Paso	-	-	-	-	28.88	34.73	36.9	35.9	36.29	47.98	55.95	57.4	60.65
Texas, Houston	29.13	18.83	17.17	24	29.32	32.23	32.82	32.34	33.9	47.28	52.4	56.4	60.15
Utah, Salt Lake City	31.88	22.67	19.88	24.42	30.9	34.32	34.98	35.56	37.37	50.17	56.32	58.45	60.94
Virginia, Norfolk	30.08	19.86	20.38	27.33	31.23	35.57	35.23	36.9	39.48	52.73	56.23	60.07	63.98
Washington, Seattle	-	-	-	-	29.57	36.4	36.73	36.35	39.42	52.22	57.18	59.98	64.23
Washington, Spokane	28.92	23.83	21.92	30.63	36.73	36.4	36.57	35.95	39.07	52.72	56.68	60.13	63.87
West Virginia, Charleston	30.33	20.46	20.68	29.23	31.32	35.73	37.73	38.4	39.56	51.23	57.57	59.07	63.14
Wisconsin, Milwaukee	27.35	17.43	19.15	24.9	30.98	33.15	34.48	33.73	38.37	52.13	58.15	58.4	61.4

See notes and sources at end of table

Average United States Retail Gasoline Prices for Selected Cities(a)

Area(b)	1978		1979		1980		1981		1982		1983		1984		1985	
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded
U.S. City Average	0.627	0.670	0.857	0.903	1.191	1.245	1.311	1.378	1.222	1.296	1.157	1.241	1.129	1.212	1.115	1.203
Anchorage, Alaska	0.744	0.767	0.921	0.952	1.241	1.275	1.408	1.465	1.380	1.446	1.253	1.339	1.204	1.294	1.180	1.237
Atlanta, Ga.	0.624	0.668	0.843	0.890	1.197	1.251	1.328	1.397	1.234	1.319	1.143	1.248	1.110	1.225	1.094	1.197
Baltimore, Md.	0.613	0.666	0.844	0.891	1.204	1.251	1.334	1.389	1.288	1.335	1.244	1.296	1.092	1.164	1.092	1.163
Boston, Ma.	0.623	0.660	0.857	0.899	1.199	1.241	1.337	1.391	1.234	1.283	1.155	1.225	1.078	1.175	1.082	1.173
Buffalo, NY.	0.644	0.687	0.899	0.948	1.235	1.280	1.336	1.394	1.248	1.306	1.222	1.288	1.174	1.249	1.145	1.208
Chicago Ill-NW Ind.	0.680	0.730	0.925	0.979	1.246	1.304	1.344	1.410	1.264	1.321	1.223	1.298	1.206	1.284	1.176	1.258
Cincinnati, Oh-Ky-Ind.	0.618	0.655	0.842	0.882	1.154	1.206	1.275	1.345	1.217	1.293	1.187	1.257	1.153	1.218	1.090	1.149
Cleveland, Oh	0.621	0.665	0.839	0.884	1.160	1.203	1.304	1.385	1.269	1.327	1.175	1.248	1.130	1.214	1.081	1.182
Dallas-Ft Worth, Tx	0.579	0.617	0.789	0.833	1.132	1.186	1.245	1.307	1.140	1.209	1.081	1.158	1.072	1.163	1.104	1.142
Denver-Boulder, Colo.	0.612	0.663	0.838	0.886	1.150	1.217	1.259	1.330	1.197	1.273	1.091	1.197	1.049	1.164	1.056	1.155
Detroit, Mich.	0.643	0.696	0.891	0.947	1.242	1.303	1.335	1.395	1.247	1.304	1.227	1.280	1.236	1.278	1.173	1.264
Honolulu, Hawaii	0.759	0.764	0.937	0.976	1.298	1.355	1.409	1.567	1.472	1.542	1.400	1.462	1.368	1.443	1.274	1.396
Houston, Tx	0.567	0.613	0.794	0.835	1.139	1.183	1.261	1.313	1.143	1.212	1.040	1.132	1.015	1.116	1.023	1.092
Kansas City, Mo-Kn	0.604	0.644	0.843	0.886	1.137	1.190	1.237	1.298	1.195	1.262	1.155	1.226	1.082	1.142	1.048	1.124
Los Angeles, Long Beach, Anaheim, Ca.	0.644	0.691	0.892	0.943	1.213	1.271	1.337	1.409	1.232	1.318	1.166	1.215	1.102	1.211	1.088	1.191
Miami, Fla	0.611	0.661	0.841	0.892	1.186	1.235	1.319	1.389	1.257	1.364	1.207	1.326	1.126	1.215	1.115	1.205
Milwaukee, Wisc	0.595	0.631	0.819	0.864	1.139	1.198	1.273	1.329	1.245	1.286	1.190	1.224	1.147	1.202	1.129	1.197
Minneapolis, St. Paul, Minn-Wisc.	0.618	0.654	0.860	0.901	1.175	1.231	1.294	1.360	1.253	1.328	1.211	1.284	1.171	1.223	1.174	1.247
New York, NY-NE N.J.	0.632	0.675	0.882	0.927	1.241	1.286	1.355	1.413	1.249	1.319	1.181	1.257	1.116	1.189	1.114	1.185
NE Penn	0.610	0.650	0.837	0.879	1.178	1.218	1.306	1.353	1.197	1.242	1.157	1.208	1.137	1.204	1.142	1.227
Philadelphia, Pa-NJ.	0.618	0.658	0.855	0.904	1.192	1.233	1.309	1.365	1.188	1.255	1.149	1.210	1.141	1.213	1.113	1.164
Pittsburgh, Pa.	0.628	0.663	0.857	0.893	1.205	1.242	1.356	1.409	1.234	1.312	1.147	1.233	1.147	1.238	1.149	1.213
Portland, Ore-Wash	0.636	0.681	0.870	0.907	1.193	1.226	1.317	1.381	1.257	1.337	1.121	1.230	1.116	1.222	1.115	1.200
St. Louis, Mo-Ill.	0.607	0.656	0.851	0.897	1.145	1.208	1.230	1.299	1.151	1.213	1.111	1.164	1.086	1.142	1.064	1.137
San Diego, Ca.	0.636	0.691	0.881	0.932	1.215	1.280	1.323	1.408	1.240	1.339	1.157	1.253	1.162	1.212	1.119	1.248
San Fran-Oakland, Ca.	0.661	0.717	0.899	0.961	1.243	1.310	1.355	1.436	1.260	1.353	1.154	1.290	1.156	1.302	1.141	1.252
Seattle-Everett, Wash.	0.650	0.677	0.877	0.917	1.211	1.253	1.335	1.401	1.227	1.271	1.145	1.182	1.178	1.217	1.152	1.221
Washington, DC-Md-Va.	0.651	0.702	0.853	0.906	1.224	1.276	1.334	1.393	1.256	1.304	1.232	1.288	1.203	1.302	1.148	1.254
Region (c)																
Northeast	0.631	0.672	0.870	0.913	1.220	1.260	1.344	1.396	1.238	1.298	1.181	1.248	1.133	1.204	1.124	1.201
North Central	0.628	0.671	0.861	0.910	1.183	1.244	1.303	1.370	1.233	1.298	1.191	1.261	1.157	1.233	1.133	1.219
South	0.611	0.654	0.831	0.863	1.172	1.223	1.293	1.360	1.196	1.272	1.132	1.217	1.105	1.192	1.101	1.181
West	0.643	0.695	0.879	0.936	1.201	1.267	1.323	1.405	1.233	1.325	1.132	1.238	1.123	1.220	1.115	1.209

See notes and sources at end of table

Average United States Retail Gasoline Prices for Selected Cities(a)

Area(b)	1986		1987		1988		1989		1990	1991
	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Leaded	Unleaded	Unleaded	Unleaded
U.S. City Average	0.857	0.927	0.897	0.948	0.900	0.946	0.997	1.022	1.164	1.140
Anchorage, Alaska	0.950	0.997	NA	NA	NA	NA	NA	NA	NA	NA
Atlanta, Ga.	0.769	0.888	NA	NA	NA	NA	NA	NA	NA	NA
Baltimore, Md.	0.877	0.921	0.913	0.935	0.956	0.980	NA	1.042	1.158	1.112
Boston, Ma.	0.857	0.922	0.883	0.929	0.923	0.971	NA	1.027	1.186	1.236
Buffalo, NY	0.861	0.890	NA	NA	NA	NA	NA	NA	NA	NA
Chicago Ill-NW Ind.	0.912	0.953	0.969	1.004	0.982	1.016	NA	1.107	1.278	1.247
Cincinnati, Oh-Ky-Ind.	0.812	0.853	NA	NA	NA	NA	NA	NA	NA	NA
Cleveland, Oh	0.820	0.902	0.880	0.941	NA	0.948	NA	1.019	1.179	1.173
Dallas-Ft Worth, Tx	0.789	0.831	0.856	0.881	0.875	0.885	0.955	0.937	1.093	1.119
Denver-Boulder, Colo.	0.788	0.873	NA	NA	NA	NA	NA	NA	NA	NA
Detroit, Mich.	0.833	0.944	0.859	0.972	0.911	0.969	NA	1.027	1.156	1.109
Honolulu, Hawaii	1.077	1.221	NA	NA	NA	NA	NA	NA	NA	NA
Houston, Tx	0.753	0.796	0.852	0.880	0.852	0.871	NA	0.958	1.119	1.116
Kansas City, Mo-Kn	0.758	0.817	NA	NA	NA	NA	NA	NA	NA	NA
Los Angeles, Long Beach, Anaheim, Ca.	0.879	0.956	0.901	0.931	0.902	0.910	0.969	0.986	1.140	1.074
Miami, Fla	0.895	0.953	0.949	0.983	NA	0.967	NA	0.995	1.099	1.091
Milwaukee, Wisc	0.857	0.899	NA	NA	NA	NA	NA	NA	NA	NA
Minneapolis, St. Paul, Minn-Wisc.	0.902	0.965	NA	NA	NA	NA	NA	NA	NA	NA
New York, NY-NE N.J.	0.859	0.908	0.903	0.936	0.919	0.958	NA	1.039	1.157	1.189
NE Penn	0.869	0.910	NA	NA	NA	NA	NA	NA	NA	NA
Philadelphia, Pa-NJ.	0.869	0.880	0.891	0.895	0.906	0.895	NA	0.979	1.139	1.147
Pittsburgh, Pa.	0.855	0.883	0.887	0.899	0.882	0.882	NA	0.967	1.119	1.123
Portland, Ore-Wash	0.839	0.922	NA	NA	NA	NA	NA	NA	NA	NA
St. Louis, Mo-Ill.	0.797	0.865	0.854	0.897	0.865	0.903	0.945	0.958	1.084	1.034
San Diego, Ca.	0.876	1.004	NA	NA	NA	NA	NA	NA	NA	NA
San Fran-Oakland, Ca.	0.869	0.976	0.870	0.955	0.907	1.011	0.977	1.078	1.240	1.204
Seattle-Everett, Wash.	0.891	0.962	NA	NA	NA	NA	NA	NA	NA	NA
Washington, DC-Md-Va.	0.890	0.983	0.911	0.998	NA	1.044	NA	1.109	1.245	1.176
Region (c)										
Northeast	0.877	0.931	0.900	0.946	0.908	0.954	1.020	1.029	1.169	1.196
North Central	0.859	0.921	0.914	0.958	0.914	0.952	1.018	1.028	1.175	1.143
South	0.831	0.904	0.883	0.943	0.886	0.937	0.998	1.006	1.142	1.116
West	0.873	0.957	0.896	0.946	0.901	0.945	0.987	1.030	1.180	1.121

(a) Regular grade gasoline at full service stations, retail price including tax. Beginning in 1978, prices are for leaded and unleaded. Beginning in 1990, prices are for regular unleaded only.

(b) Area is generally the SMSA. Los Angeles, Long Beach, Anaheim is a combination of two SMSA's and N.Y.-NE N.J. and Chicago-NW Ind. are the more extensive Standard Consolidated Areas.

(c) Regions are defined as the four Census regions.

(d) Prices prior to 1970 are for Jacksonville.

SOURCE: 1920-1950: Texaco, Inc.
1960-1977: Platt's Oilgram Price Service
1978-1991: U.S. Bureau of Labor Statistics

Average Price of Natural Gas Consumed by End Use Sector
(Dollars per Thousand Cubic Feet)

Year	Lease and Plant Fuel	Pipeline Fuel	Delivered to Consumers					Total Consumption
			Residential	Commercial(a)	Industrial	Electric Utilities	Total	
1967	0.15	0.20	1.04	0.74	0.34	0.28	0.57	0.33
1968	0.16	0.20	1.04	0.73	0.34	0.22	0.55	0.51
1969	0.18	0.21	1.05	0.74	0.35	0.27	0.57	0.53
1970	0.18	0.21	1.09	0.77	0.37	0.29	0.59	0.55
1971	0.19	0.22	1.15	0.82	0.41	0.32	0.63	0.59
1972	0.20	0.23	1.21	0.88	0.45	0.34	0.68	0.63
1973	0.21	0.25	1.29	0.94	0.50	0.38	0.73	0.68
1974	0.51	0.30	1.43	1.07	0.67	0.51	0.89	0.84
1975	0.47	0.40	1.71	1.35	0.96	0.77	1.19	1.12
1976	0.57	0.51	1.98	1.64	1.24	1.06	1.47	1.38
1977	0.71	0.77	2.35	2.04	1.50	1.32	1.78	1.66
1978	0.79	0.90	2.56	2.23	1.70	1.48	1.98	1.85
1979	1.06	1.32	2.98	2.73	1.99	1.81	2.34	2.21
1980	1.43	1.85	3.68	3.39	2.56	2.27	2.91	2.80
1981	1.93	2.39	4.29	4.00	3.14	2.89	3.51	3.39
1982	2.23	2.97	5.17	4.82	3.87	3.48	4.32	4.15
1983	2.54	3.15	6.06	5.59	4.18	3.58	4.82	4.64
1984	2.71	3.04	6.12	5.55	4.22	3.70	4.85	4.67
1985	2.37	2.92	6.12	5.50	3.95	3.55	4.72	4.54
1986	2.02	2.52	5.83	5.08	3.23	2.43	4.13	3.96
1987	NA	2.17	5.54	4.77	2.94	2.32	4.05	NA
1988	NA	2.10	5.47	4.63	2.95	2.33	4.09	NA
1989	NA	2.01	5.64	4.74	2.97	2.43	4.22	NA
1990	NA	1.95	5.8	4.82	2.93	2.38	3.39	NA

NA = Not available.
(a) Includes deliveries to local, state and federal agencies engaged in non-manufacturing activities.

SOURCE: U.S. Energy Information Administration, Natural Gas Annuals.

Spot Prices for Selected World Crude Oils
(Mid-month--Dollars per Barrel)

Crude/Type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1984												
Brent(a)	29.30	29.33	29.85	30.05	29.90	29.28	28.38	28.43	28.48	28.30	27.95	26.95
Dubai(b)	27.75	27.60	27.85	28.03	28.08	28.05	27.50	27.16	27.35	27.33	27.20	26.53
Forcados(c)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	28.35	28.50	28.50	29.05	28.00	27.40
ANS(d)	28.35	28.50	29.68	29.53	29.30	29.38	28.48	28.70	28.70	28.13	27.95	26.33
WTI(e)	29.73	29.73	30.73	30.73	30.55	30.08	28.83	29.23	29.28	28.83	28.33	26.35
1985												
Brent	27.05	28.30	27.75	28.00	26.40	26.25	26.30	27.10	27.20	28.15	29.60	25.85
Dubai	27.45	27.25	27.13	26.75	25.53	25.45	25.53	26.25	26.08	26.80	26.85	26.55
Forcados	27.35	28.55	28.25	28.15	26.80	26.45	26.43	27.35	27.95	28.85	30.15	26.85
ANS	25.95	28.28	28.35	28.50	26.90	25.85	26.03	27.08	27.18	27.43	29.05	25.58
WTI	25.95	27.78	28.33	29.13	27.83	27.33	27.33	28.03	27.93	29.33	30.98	27.23
1986												
Brent	23.25	17.00	13.30	12.55	14.25	12.10	9.30	14.70	14.55	13.50	15.15	15.75
Dubai	23.70	14.65	11.30	10.68	11.48	10.40	7.15	12.95	14.30	13.15	14.05	14.35
Forcados	25.85	17.35	14.10	13.35	14.68	12.00	9.05	14.45	14.30	13.10	14.50	15.80
ANS	23.95	15.15	12.73	11.85	13.93	12.05	10.30	13.98	13.53	12.93	14.43	15.23
WTI	25.18	16.03	12.73	12.68	15.68	13.68	12.05	15.83	15.08	14.38	15.68	16.13
1987												
Brent	18.83	17.40	17.88	17.58	18.80	18.75	19.80	19.20	18.30	18.75	17.95	16.95
Dubai	17.40	16.77	16.87	16.98	17.00	17.25	17.60	17.25	16.90	16.95	16.45	15.10
Forcados	18.85	17.75	17.98	17.53	18.65	18.75	19.80	19.15	18.35	18.90	18.05	16.15
ANS	18.60	17.05	17.75	17.38	18.75	18.85	20.05	19.15	18.30	18.55	17.40	14.65
WTI	19.13	17.83	18.38	17.98	19.55	19.85	21.55	20.55	19.60	19.75	18.90	16.65
1988												
Brent	16.55	15.90	14.25	16.90	16.55	15.60	14.35	14.95	13.70	13.35	13.00	15.15
Dubai	15.25	15.10	12.90	15.00	15.00	13.75	12.45	13.05	11.90	11.15	10.35	12.80
Forcados	16.70	15.90	14.25	16.85	16.50	15.55	14.25	14.90	13.40	13.45	13.05	15.75
ANS	15.25	14.95	13.90	16.20	15.55	14.80	13.80	14.25	13.45	12.85	11.75	14.50
WTI	16.90	16.75	15.65	18.25	17.50	16.55	14.85	15.55	14.90	14.90	14.20	16.35
1989												
Brent	17.10	15.85	18.50	19.30	18.30	16.50	17.75	17.05	18.00	19.25	18.60	19.45
Dubai	14.40	14.15	16.20	17.00	15.45	14.70	15.45	15.00	15.75	16.40	15.95	16.90
Forcados	17.85	16.50	19.15	19.95	19.10	16.30	17.40	16.80	18.20	19.55	18.85	20.05
ANS	16.95	15.95	17.75	19.55	17.40	17.40	17.45	16.70	17.30	18.30	17.90	19.20
WTI	18.85	17.40	19.75	20.65	20.05	20.70	20.35	18.65	19.95	20.60	19.65	20.65
1990												
Brent	20.35	20.11	18.38	16.04	17.99	15.65	17.39	26.53	33.10	39.33	31.35	26.80
Dubai	16.98	16.59	15.81	13.49	15.32	13.40	14.91	24.05	28.55	34.48	26.99	22.15
Forcados	21.70	20.39	18.28	15.35	17.30	14.83	16.79	27.33	33.95	40.18	31.85	27.55
ANS	19.81	20.69	18.18	14.62	16.59	14.48	15.91	25.80	31.16	34.85	28.31	24.68
WTI	22.36	22.89	20.05	17.77	19.71	17.07	18.36	26.52	31.71	39.35	31.16	26.53

See notes and sources at end of table

Section VI
Table 14a

Spot Prices for Selected World Crude Oils
(Mid-month--Dollars per Barrel)

Crude/Type	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1991												
Brent	28.65	17.30	18.43	20.20	19.27	17.75	19.53	19.28	20.55	22.72	21.78	18.38
Dubai	24.10	13.08	14.19	15.55	16.00	15.39	16.23	16.22	18.19	19.21	18.85	14.99
Forcados	28.85	18.00	18.18	19.52	18.52	17.25	19.36	19.41	21.10	23.37	22.45	18.98
ANS	26.40	15.43	17.86	19.55	17.72	17.03	18.36	18.17	18.97	20.90	19.53	16.73
WTI	30.00	20.68	19.86	21.48	21.02	19.65	21.46	21.37	21.82	23.89	22.78	19.71
1992												
Brent	18.30	18.41	17.69	18.74	19.67	21.22	20.24	20.04				
Dubai	15.28	16.00	15.79	16.43	17.28	19.01	18.67	17.87				
Forcados	18.75	18.29	17.76	18.89	19.88	21.45	20.61	20.48				
ANS	15.73	16.46	16.49	17.53	18.06	20.43	19.62	18.92				
WTI	18.90	19.36	19.09	19.91	20.53	22.31	21.70	21.34				

(a) Brent is from the North Sea, United Kingdom.
(b) Dubai from Dubai, part of United Arab Emirates.
(c) Forcados from Nigeria.
(d) ANS (Alaskan North Slope) from the United States.
(e) WTI (West Texas Intermediate) from the United States.

SOURCE: Platt's Oilgram Price Report.

Historical Average U.S. Gasoline Prices: 1918-1946
(Cents per Gallon)

Year	Service Station Price (Excluding Tax)	State and Federal Taxes	Service Station Price (Including Tax)
1918	25.12	--	25.12
1919	25.41	0.06	25.47
1920	29.74	0.09	29.83
1921	26.11	0.20	26.31
1922	24.82	0.38	25.20
1923	21.06	0.91	21.97
1924	19.47	1.48	20.95
1925	20.09	2.11	22.20
1926	20.97	2.41	23.38
1927	18.28	2.81	21.09
1928	17.90	3.04	20.94
1929	17.92	3.50	21.42
1930	16.16	3.79	19.95
1931	12.98	4.00	16.98
1932	13.30	4.63	17.93
1933	12.41	5.41	17.82
1934	13.64	5.21	18.85
1935	13.55	5.29	18.84
1936	14.10	5.35	19.45
1937	14.59	5.40	19.99
1938	14.07	5.44	19.51
1939	13.31	5.44	18.75
1940	12.75	5.66	18.41
1941	13.30	5.93	19.23
1942	14.46	5.97	20.43
1943	14.56	5.97	20.53
1944	14.62	5.97	20.59
1945	14.48	6.02	20.50
1946	14.69	6.08	20.77

SOURCE: Texaco, Inc.

BASIC PETROLEUM DATA BOOK

SECTION VII. DEMAND

Table 1. Estimated World Demand for Refined Products by Area
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Section VII
Table 1

Estimated World Demand for Refined Petroleum Products by Area
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Europe	Subtotal	Communist Nations	USSR/ E. Europe(a)	Total World
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	NA	NA	NA
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	NA	NA	NA
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	NA	NA	NA
1953	2,776,778	163,237	328,243	3,268,258	57,145	75,196	204,607	550,652	4,155,858	NA	NA	NA
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	NA	NA	NA
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	NA	NA	NA
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	286,546	836,671	5,136,104	NA	NA	NA
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	NA	NA	NA
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	NA	NA	NA
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	NA	7,229,097
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	NA	7,818,752
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	NA	8,424,782
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	NA	9,097,773
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	NA	9,835,302
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	NA	10,573,703
1965	4,202,039	416,873	766,617	5,385,529	285,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	NA	11,385,224
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	NA	12,251,156
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	NA	12,992,982
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	NA	14,252,325
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	NA	15,587,588
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	NA	16,681,650
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	2,622,268	NA	17,698,723
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	NA	18,744,793
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	NA	20,425,752
1974	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,599	16,755,836	3,034,212	NA	19,790,048
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	NA	19,343,365
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	NA	21,175,836
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	NA	22,242,275
1978	6,879,017	633,868	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	NA	22,964,248
1979	6,757,077	698,975	1,622,425	9,078,477	702,625	496,400	4,100,775	5,347,250	19,725,527	NA	4,029,600	23,755,127
1980	6,242,445	671,510	1,689,090	8,603,045	739,320	530,700	3,903,390	4,974,950	18,751,405	NA	4,172,400	22,923,805
1981	5,861,058	642,400	1,700,900	8,204,358	777,450	556,625	3,819,725	4,666,525	18,024,683	NA	4,148,225	22,172,908
1982	5,582,938	571,225	1,739,225	7,893,388	799,350	587,650	3,677,375	4,449,350	17,407,113	NA	4,095,300	21,502,413
1983	5,559,364	538,375	1,708,200	7,805,939	885,125	594,950	3,690,150	4,358,100	17,334,264	NA	4,024,125	21,358,389
1984	5,755,575	521,550	1,700,070	7,977,195	929,640	596,580	3,833,850	4,398,250	17,735,515	NA	4,040,640	21,776,155
1985	5,740,143	543,850	1,695,425	7,979,418	978,200	629,625	3,806,950	4,330,725	17,724,918	NA	4,042,375	21,767,293
1986	5,942,429	538,375	1,735,575	8,216,379	970,900	622,325	3,991,275	4,504,100	18,304,979	NA	4,086,175	22,391,154
1987	6,082,742	552,975	1,819,525	8,455,242	987,325	646,050	4,113,550	4,513,225	18,715,392	NA	4,069,750	22,785,142
1988	6,325,692	581,940	1,855,620	8,763,252	1,026,630	666,120	4,437,750	4,571,625	19,465,377	NA	4,046,130	23,511,507
1989	6,323,681	605,900	1,921,725	8,851,306	1,065,800	667,950	4,730,400	4,566,150	19,881,606	NA	3,998,575	23,880,181

See notes and sources at end of table

Section VII
Table 1a

Estimated World Demand for Refined Petroleum Products by Area
(Thousands of Barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Europe	Subtotal	Communist Nations	USSR/ E. Europe(a)	Total World
1990	6,200,801	589,475	1,971,000	8,761,276	1,107,775	717,225	4,964,000	4,761,425	20,311,701	NA	3,564,225	23,875,926
1991	6,100,550	593,125	1,963,700	8,657,375	1,136,975	746,425	5,130,075	4,869,100	20,539,950	NA	3,578,825	24,118,775

NA = Not Available
(a) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued.
Beginning in 1979, all countries are grouped by geographic region, rather than political ideology.

SOURCE: 1950-1958: U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1974: U.S. Bureau of Mines, International Petroleum Annual
1975-1979: U.S. Energy Information Administration, International Energy Annual
1979-1991: United States: U.S. Energy Information Administration, Petroleum Supply Annual
Rest of World: BP Statistical Review of World Energy

Section VII
Table 2

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production													
Year	Crude Oil	Lease Con-densate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1947	5,087	(f)	362	437	2	5,888	93	12	5,993	(14)	6,007	69	451	5,487
1948	5,520	(f)	401	514	1	6,436	84	8	6,528	293	6,235	84	368	5,783
1949	5,046	(f)	430	645	1	6,123	42	2	6,167	- 8	6,175	42	327	5,806
1950	5,407	(f)	499	850	-	6,756	98	2	6,856	- 56	6,912	51	305	6,556
1951	6,158	(f)	561	844	1	7,564	49	7	7,620	101	7,519	32	422	7,065
1952	6,256	(f)	611	952	1	7,820	20	7	7,847	108	7,739	17	432	7,290
1953	6,458	(f)	654	1,034	1	8,147	9	20	8,176	142	8,034	24	402	7,608
1954	6,342	(f)	691	1,052	1	8,086	7	23	8,117	- 29	8,146	27	355	7,764
1955	6,807	(f)	771	1,248	1	8,827	9	34	8,870	--	8,870	38	368	8,464
1956	7,151	(f)	800	1,436	1	9,388	8	43	9,439	179	9,260	47	430	8,783
1957	7,170	(f)	808	1,574	1	9,553	18	42	9,613	167	9,446	51	568	8,827
1958	6,710	(f)	808	1,700	1	9,218	N.A.	64	9,282	(140)	9,422	29	276	9,117
1959	7,054	(f)	879	1,780	1	9,713	N.A.	86	9,799	+	51	11	211	9,526
1960	7,035	(f)	929	1,815	1	9,780	N.A.	146	9,926	- 83	10,009	9	202	9,797
1961	7,183	(f)	991	1,917	-	10,091	N.A.	179	10,270	111	10,159	9	174	9,976
1962	7,332	(f)	1,021	2,082	-	10,435	N.A.	175	10,610	32	32	9	168	10,400
1963	7,542	(f)	1,098	2,123	-	10,763	N.A.	202	10,965	3	10,962	10	208	10,743
1964	7,614	(f)	1,154	2,259	-	11,027	N.A.	219	11,246	10	11,236	10	202	11,023
1965	7,804	(f)	1,210	2,468	-	11,482	N.A.	220	11,702	(8)	11,710	10	187	11,512
1966	8,295	(f)	1,284	2,573	-	12,152	N.A.	245	12,397	104	12,293	10	198	12,084
1967	8,810	(f)	1,409	2,537	-	12,757	N.A.	292	13,049	173	12,876	9	307	12,560
1968	8,660	436	1,504	2,840	9	13,448	20	319	13,787	152	13,635	11	231	13,393
1969	8,778	460	1,590	3,166	12	14,005	- 7	335	14,333	- 48	14,381	12	233	14,137
1970	9,180	457	1,660	3,419	17	14,733	(21)	359	15,071	103	14,968	12	259	14,697
1971	9,032	431	1,693	3,926	17	15,098	41	382	15,521	71	15,449	12	224	15,213
1972	8,998	443	1,744	4,741	28	15,954	28	388	16,370	(232)	16,602	13	222	16,367
1973	8,784	424	1,738	6,256	30	17,232	3	3	17,688	135	17,552	13	231	17,308
1974	8,375	399	1,688	6,112	36	16,610	(25)	480	17,065	179	16,886	13	221	16,653
1975	8,007	367	1,633	6,056	38	16,101	17	460	16,578	32	16,545	13	209	16,322
1976	7,776	355	1,603	7,313	38	17,086	77	479	17,642	- 58	17,698	14	223	17,461
1977	7,875	370	1,618	8,787	50	18,700	- 6	524	19,218	529	18,689	16	243	18,431
1978	8,353	355	1,567	8,202	53	18,530	(57)	496	18,969	(257)	19,226	17	362	18,847
1979	8,181	371	1,584	8,389	44	18,572	(11)	527	19,088	107	18,981	16	472	18,513
1980	8,210	386	1,573	6,865	44	17,078	34	597	17,709	94	17,615	28	544	17,056
1981	8,177	395	1,609	5,740	50	15,971	83	508	16,562	(176)	16,738	5	595	16,058
1982	8,262	387	1,550	4,948	53	15,200	71	531	15,802	(321)	16,123	3	815	15,296
1983	8,688	(f)	1,559	4,817	53	15,117	114	488	15,719	(254)	15,973	2	739	15,231
1984	8,879	(f)	1,630	5,240	45	15,794	185	553	16,532	85	16,447	2	722	15,726

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production													
Year	Crude Oil	Lease Con-densate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1985	8,971	(f)	1,609	4,949	55	15,584	145	557	16,286	(220)	16,506	1	781	15,726
Jan.	8,740	(f)	1,628	4,192							16,902	1	792	16,109
Feb.	9,025	(f)	1,623	3,815							16,979	1	857	16,121
Mar.	9,095	(f)	1,600	4,625							16,068	1	694	15,373
Apr.	9,043	(f)	1,582	5,208							16,237	1	764	15,472
May	9,132	(f)	1,594	5,554							16,210	1	705	15,504
Jun.	9,022	(f)	1,597	4,774							16,176	1	692	15,483
Jul.	8,949	(f)	1,568	4,724							16,110	1	675	15,434
Aug.	8,803	(f)	1,594	4,602							16,809	0	749	16,060
Sep.	8,954	(f)	1,575	4,899							15,905	0	806	15,099
Oct.	8,970	(f)	1,610	5,101							16,634	0	690	15,944
Nov.	8,902	(f)	1,660	6,063							16,539	0	1,036	15,503
Dec,	9,030	(f)	1,680	5,757							17,537	1	925	16,611
1986	8,680	(f)	1,551	6,176	58	16,465	139	616	17,220	152	17,068	0	785	16,283
Jan.	9,137	(f)	1,711	5,522							16,948	1	859	16,088
Feb.	9,173	(f)	1,696	4,652							17,062	0	876	16,186
Mar.	9,013	(f)	1,604	4,653							17,008	0	732	16,276
Apr.	8,864	(f)	1,523	5,376							16,795	0	850	15,945
May	8,838	(f)	1,543	6,364							16,717	0	724	15,993
Jun.	8,623	(f)	1,504	6,784							16,691	0	642	16,049
Jul.	8,660	(f)	1,507	6,890							16,992	0	685	16,307
Aug.	8,374	(f)	1,445	7,117							17,486	0	868	16,618
Sep.	8,328	(f)	1,468	7,043							16,623	0	714	15,909
Oct.	8,419	(f)	1,477	6,390							17,433	0	831	16,602
Nov.	8,412	(f)	1,569	6,547							17,042	0	821	16,221
Dec.	8,352	(f)	1,571	6,652							17,951	0	820	17,131
1987	8,349	(f)	1,595	6,605	64	16,613	145	639	17,397	(39)	17,436	0	764	16,665
Jan.	8,480	(f)	1,582	6,261							17,388	1	703	16,684
Feb.	8,389	(f)	1,618	5,940							17,885	0	977	16,908
Mar.	8,464	(f)	1,598	5,699							16,886	1	720	16,165
Apr.	8,498	(f)	1,590	5,854							17,394	0	870	16,524
May	8,336	(f)	1,585	5,981							16,692	0	666	16,026
Jun.	8,279	(f)	1,578	6,705							17,499	0	669	16,830
Jul.	8,251	(f)	1,582	7,512							17,793	0	680	17,113
Aug.	8,210	(f)	1,571	7,391							17,010	0	664	16,346
Sep.	8,205	(f)	1.582	7,114							17,465	0	795	16,670
Oct.	8,364	(f)	1,602	7,011							17,587	0	646	16,941
Nov.	8,397	(f)	1,637	6,971							17,080	0	737	16,343
Dec.	8,318	(f)	1,621	6,765							18,502	0	1,057	17,445

See notes and sources at end of table

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

	Production														
Year	Crude Oil	Lease Condensate	NGL's	Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
1988	8,140	(f)	1,625	7,351	53	17,169	196	655	18,020	(79)	18,099	0	815	17,284
Jan.	8,250	(f)	1,579	7,114							18,288	0	885	17,403
Feb.	8,374	(f)	1,605	7,207							18,624	0	864	17,760
Mar.	8,374	(f)	1,636	6,921							18,446	0	834	17,612
Apr.	8,288	(f)	1,618	7,192							17,237	0	676	16,561
May	8,229	(f)	1,627	7,447							17,011	0	814	16,197
Jun	8,170	(f)	1,616	7,169							17,997	0	938	17,059
Jul	8,040	(f)	1,618	7,255							17,522	1	826	16,695
Aug.	8,079	(f)	1,616	7,360							18,296	0	814	17,482
Sep.	7,895	(f)	1,621	7,422							17,745	0	673	17,072
Oct.	8,023	(f)	1,661	7,787							18,312	0	732	17,580
Nov.	8,023	(f)	1,666	7,625							18,337	0	717	17,620
Dec.	7,942	(f)	1,634	7,700							19,373	0	1,008	18,365
1989	7,613	(f)	1,546	8,005	60	17,224	200	661	18,085	(99)	18,184	0	859	17,325
Jan.	7,937	(f)	1,664	8,190							18,030	0	761	17,269
Feb.	7,788	(f)	1,607	7,948							18,795	0	875	17,920
Mar.	7,575	(f)	1,650	7,381							18,849	0	860	17,989
Apr.	7,772	(f)	1,674	8,019							17,434	0	810	16,624
May	7,816	(f)	1,620	7,701							17,337	0	791	16,546
Jun.	7,624	(f)	1,507	7,922							18,472	0	975	17,497
Jul.	7,444	(f)	1,541	8,294							17,233	0	780	16,453
Aug.	7,544	(f)	1,504	8,528							18,327	0	967	17,360
Sep.	7,548	(f)	1,480	7,943							17,451	1	655	16,795
Oct.	7,453	(f)	1,478	8,264							18,095	0	791	17,304
Nov.	7,536	(f)	1,483	8,300							18,268	0	975	17,311
Dec.	7,337	(f)	1,343	7,567							19,925	0	1,067	18,858
1990	7,355	(f)	1,559	7,991	78	16,983	258	711	17,952	107	17,845	0	857	16,988
Jan.	7,546	(f)	1,541	9,173							17,673	0	709	16,964
Feb.	7,497	(f)	1,570	8,070							17,997	0	822	17,175
Mar.	7,433	(f)	1,526	7,921							17,967	0	880	17,087
Apr.	7,407	(f)	1,493	7,820							17,539	0	761	16,778
May	7,328	(f)	1,502	8,745							17,605	0	690	16,915
Jun.	7,106	(f)	1,458	8,248							17,968	0	803	17,165
Jul.	7,173	(f)	1,484	9,048							17,780	0	696	17,084
Aug.	7,287	(f)	1,575	8,549							18,900	0	850	18,050
Sep.	7,224	(f)	1,597	7,361							17,359	0	847	16,512
Oct.	7,542	(f)	1,667	6,717							17,883	0	949	16,934
Nov.	7,387	(f)	1,690	7,003							17,780	0	1,085	16,695
Dec.	7,338	(f)	1,604	6,439							17,681	0	1,187	16,494

See notes and sources at end of table

Section VII
Table 2c

Total United States Supply and Demand for all Oils
(Thousands of barrels per day)

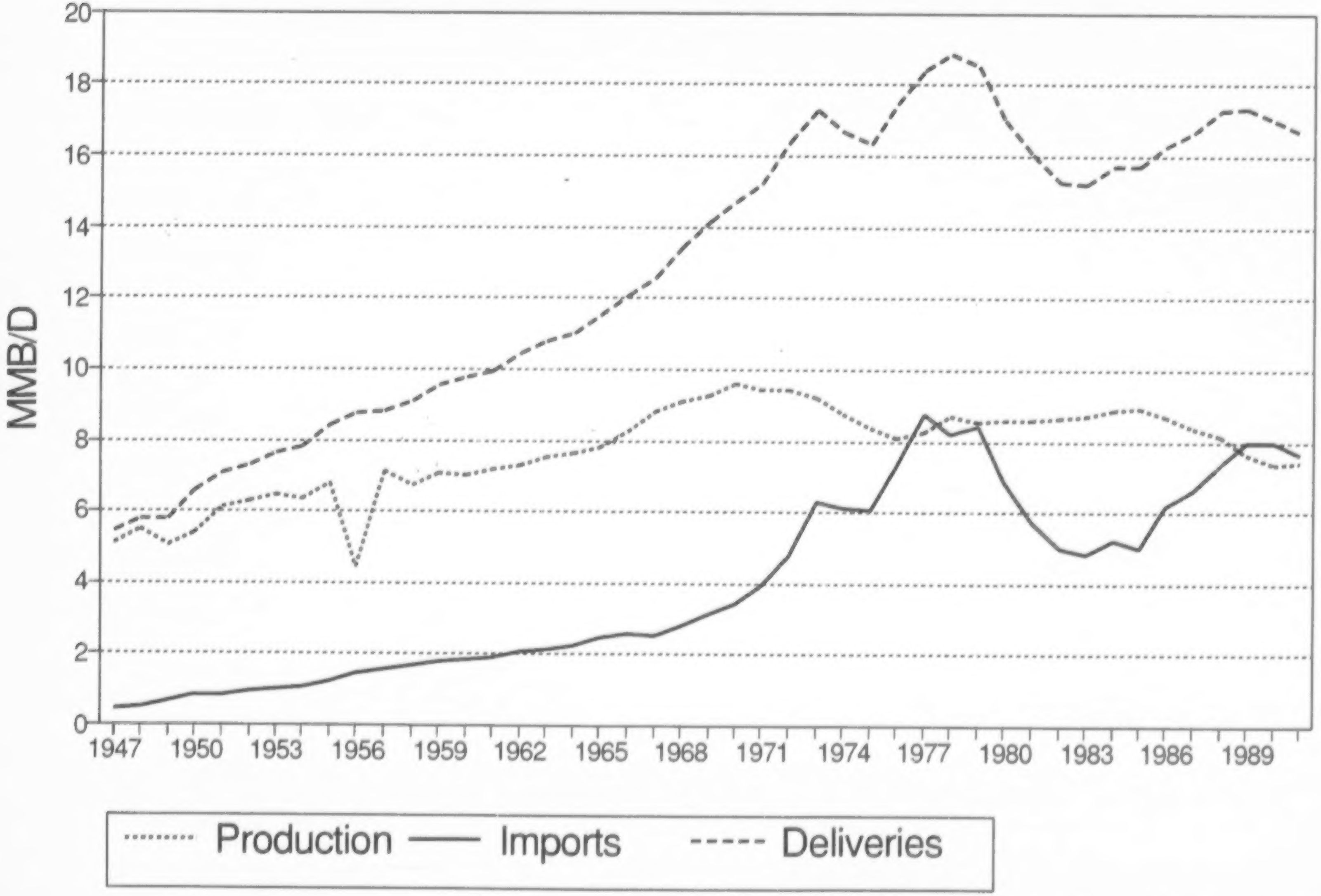
Year	Production			Total Imports(a)	Other Refinery Input(b)	Total New Supply	Un Accounted for Crude Oil(c)	Process. Gain or Loss(d)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products(e)
	Crude Oil	Lease Con-densate	NGL's											
1991	7,417	(f)	1,659	7,627	87	16,790	195	715	17,705	-10	17,715	0	1,001	16,714
Jan.	7,500	(f)	1,647	7,103							18,092	0	1,199	16,893
Feb.	7,637	(f)	1,695	6,865							17,780	0	1,441	16,339
Mar.	7,546	(f)	1,683	6,646							17,156	0	944	16,212
Apr.	7,509	(f)	1,665	7,418							16,876	0	737	16,139
May	7,409	(f)	1,657	8,518							17,338	0	1,149	16,189
Jun.	7,320	(f)	1,627	8,245							17,799	0	921	16,878
Jul.	7,347	(f)	1,622	7,755							17,934	0	963	16,971
Aug.	7,316	(f)	1,627	8,670							18,020	0	837	17,183
Sep.	7,368	(f)	1,623	7,826							17,633	0	785	16,848
Oct.	7,437	(f)	1,686	7,467							17,914	0	918	16,996
Nov.	7,328	(f)	1,697	7,615							17,656	0	926	16,730
Dec.	7,299	(f)	1,686	7,337							18,358	0	1,213	17,145
1992(p)														
Jan.	7,363	(f)	1,686	7,593							18,126	0	1,144	16,982
Feb.	7,373	(f)	1,694	6,754							17,737	0	852	16,885
Mar.	7,315	(f)	1,695	7,036							17,701	0	912	16,789
Apr.	7,291	(f)	1,704	8,067							17,709	0	937	16,772
May	7,110	(f)	1,701	7,754							17,297	0	885	16,412

(a) Excludes oil imported to the strategic petroleum reserve.
(b) Includes benzol, other hydrocarbons, and hydrogen.
(c) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968 prior years include adjustments where available.
(d) Beginning with 1960, processing gains are reported separately, prior years include adjustments to permit a balance between total new supply and total supply.
(e) Data do not add due to independent rounding.
(f) Separate data available only from 1968 to 1982. Other years, included with crude oil.
(p) Preliminary

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1975-1980: Energy Information Administration, Annual Petroleum Statements.
1981-1992: Energy Information Administration, Petroleum Supply Annuals and Monthlies.

Section VII
Table 2d

U.S. CRUDE OIL PRODUCTION, PETROLEUM IMPORTS AND DELIVERIES



Source: US Department of Energy, US Bureau of Mines

Section VII
Table 3

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1947	2,306	1	2,307	92,303	-1	2,308	130	2,178
1948	2,513	1	2,514	103,756	32	2,482	102	2,380
1949	2,632	-	2,632	111,443	21	2,611	108	2,503
1950	2,806	-	2,806	116,769	14	2,792	68	2,724
1951	3,126	1	3,127	135,306	25	3,102	110	2,992
1952	3,219	4	3,223	135,509	1	3,222	99	3,123
1953	3,470	1	3,471	157,872	64	3,407	104	3,303
1954	3,456	-	3,456	155,400	-7	3,463	94	3,369
1955	3,764	1	3,765	165,433	27	3,738	95	3,643
1956	3,904	4	3,908	187,271	59	3,849	97	3,752
1957	3,940	8	3,948	196,776	26	3,922	106	3,816
1958	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959(b)	4,079	36	4,115	187,613	-	4,115	46	4,069
1960	4,160	27	4,187	194,774	20	4,167	37	4,130
1961	4,199	29	4,228	195,830	3	4,225	25	4,200
1962	4,338	38	4,376	190,138	16	4,360	18	4,342
1963	4,452	44	4,496	190,937	6	4,490	19	4,471
1964	4,539	29	4,568	193,633	21	4,547	17	4,530
1965	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,911	43	4,954	194,177	30	4,924	11	4,913
1967	5,057	42	5,099	207,980	37	5,062	14	5,048
1968	5,301	59	5,360	211,526	10	5,350	6	5,344
1969	5,557	62	5,619	217,392	16	5,603	7	5,596
1970	5,768	67	5,835	214,348	-8	5,843	4	5,839
1971	6,034	59	6,093	223,771	25	6,068	5	6,063
1972	6,339	68	6,407	217,149	-18	6,425	2	6,423
1973	6,580	132	6,712	213,417	-11	6,723	5	6,718
1974	6,404	204	6,608	221,881 (c)	23	6,585	3	6,582
1975	6,558	184	6,742	238,002	27	6,715	2	6,713
1976	6,877	131	7,008	234,272	-10	7,018	4	7,014
1977	7,072	218	7,290	257,623	71	7,217	2	7,215
1978	7,207	190	7,397	241,002	-55	7,453	2	7,451
1979	7,158	181	7,339	239,919	-2	7,341	--	7,341
1980	6,849	140	6,989	264,205	66	6,923	--	6,923
1981	6,437	157	6,594	256,425 (d)	-27	6,621	2	6,619
1982	6,362	197	6,559	246,935	-26	6,584	20	6,564
1983	6,365	248	6,613	225,042	-45	6,658	10	6,648
1984	6,478	299	6,777	246,307	54	6,723	6	6,717

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1985	6,441	381	6,822	225,148	-43	6,865	10	6,858
Jan.	5,943	204	6,147	236,571	-224	6,372	2	6,370
Feb.	5,937	348	6,285	227,837	-325	6,610	2	6,607
Mar.	6,096	481	6,577	221,706	-117	6,694	3	6,690
Apr.	6,369	494	6,863	217,664	-135	6,998	11	6,987
May	6,589	480	7,069	217,395	-27	7,096	8	7,088
Jun.	6,807	396	7,203	220,825	171	7,032	7	7,025
Jul.	6,825	426	7,251	228,977	190	7,061	18	7,043
Aug.	6,849	305	7,154	224,116	-128	7,282	4	7,277
Sep.	6,328	314	6,642	225,565	-23	6,665	6	6,658
Oct.	6,380	324	6,704	216,183	-238	6,942	19	6,924
Nov.	6,505	410	6,915	219,506	110	6,805	17	6,790
Dec.	6,669	386	7,055	225,148	219	6,836	18	6,818
1986	6,784	326	7,110	235,490	11	7,099	33	7,066
Jan.	6,542	332	6,874	240,680	347	6,527	6	6,522
Feb.	6,333	334	6,667	246,139	167	6,500	11	6,489
Mar.	6,082	224	6,306	221,219	-697	7,003	21	6,983
Apr.	6,528	291	6,819	209,801	-341	7,160	23	7,138
May	7,126	471	7,597	222,753	447	7,150	9	7,141
Jun.	7,137	392	7,529	232,754	267	7,262	18	7,244
Jul.	6,994	337	7,331	226,374	-187	7,518	47	7,472
Aug.	7,136	303	7,439	224,160	-76	7,515	43	7,473
Sep.	6,956	304	7,260	236,700	293	6,967	40	6,926
Oct.	6,646	322	6,968	225,153	-370	7,338	61	7,278
Nov.	6,917	280	7,197	232,201	198	6,999	96	6,902
Dec.	6,982	320	7,302	235,490	112	7,190	24	7,166
1987	6,866	384	7,250	228,770	-15	7,266	35	7,231
Jan.	6,738	394	7,132	253,723	533	6,598	44	6,554
Feb.	6,387	310	6,697	252,768	-143	6,840	22	6,818
Mar.	6,588	364	6,952	250,466	-57	7,010	20	6,990
Apr.	6,867	374	7,241	243,932	-142	7,383	42	7,341
May	7,016	354	7,370	236,983	-169	7,538	48	7,490
Jun.	7,124	385	7,509	232,608	-105	7,614	46	7,568
Jul.	7,070	453	7,523	228,572	-119	7,643	33	7,610
Aug.	6,962	396	7,358	228,707	-29	7,387	19	7,368
Sep.	6,954	421	7,375	232,075	115	7,260	30	7,230
Oct.	6,694	356	7,050	220,517	-301	7,351	21	7,330
Nov.	6,923	484	7,407	227,624	206	7,201	32	7,169
Dec.	7,036	320	7,356	228,770	29	7,326	59	7,267

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(e) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(f)
1988	6,981	406	7,387	230,771	2	7,385	22	7,363
Jan.	6,751	357	7,108	242,801	385	6,724	8	6,716
Feb.	6,753	397	7,150	243,751	70	7,079	18	7,061
Mar.	6,737	349	7,086	233,949	-281	7,367	18	7,349
Apr.	6,930	399	7,329	228,901	-144	7,473	18	7,455
May	6,881	440	7,321	228,253	-43	7,364	28	7,336
Jun.	7,008	429	7,437	212,076	-471	7,908	59	7,849
Jul.	7,191	482	7,673	217,388	147	7,527	12	7,515
Aug.	7,241	494	7,735	222,116	135	7,599	15	7,584
Sep.	6,976	444	7,420	223,441	-28	7,448	16	7,432
Oct.	6,884	352	7,236	219,910	-74	7,309	13	7,296
Nov.	7,080	451	7,531	223,400	117	7,415	15	7,400
Dec.	7,328	278	7,606	230,771	198	7,410	45	7,365
1989	6,987	370	7,357	215,670	-35	7,391	39	7,352
Jan.	6,956	353	7,309	250,809	508	6,801	33	6,768
Feb.	6,670	425	7,095	249,860	-64	7,159	24	7,135
Mar.	6,634	382	7,016	232,629	-473	7,489	43	7,446
Apr.	6,830	370	7,200	229,076	-33	7,233	46	7,187
May	6,923	355	7,278	225,202	-161	7,439	31	7,408
Jun.	7,306	386	7,692	218,482	-174	7,866	60	7,806
Jul.	7,388	384	7,772	231,061	390	7,362	57	7,325
Aug.	7,187	360	7,547	222,677	-264	7,815	58	7,757
Sep.	7,101	321	7,422	228,763	124	7,298	31	7,267
Oct.	6,873	389	7,262	224,739	-90	7,352	29	7,323
Nov.	7,071	406	7,477	225,891	79	7,398	18	7,380
Dec.	6,900	306	7,206	215,670	-259	7,465	37	7,428
1990	6,982	342	7,324	221,537	9	7,314	55	7,259
Jan.	6,895	417	7,312	238,382	618	6,693	31	6,662
Feb.	7,011	411	7,422	247,108	168	7,255	53	7,202
Mar.	6,633	270	6,903	229,240	-504	7,408	45	7,363
Apr.	6,797	328	7,125	224,877	-45	7,172	28	7,144
May	6,638	585	7,223	219,508	-186	7,409	25	7,384
Jun.	7,130	376	7,506	214,613	-95	7,602	52	7,550
Jul.	7,264	432	7,696	219,963	127	7,569	41	7,528
Aug.	7,360	313	7,673	211,646	-230	7,904	77	7,827
Sep.	7,299	254	7,553	230,582	512	7,041	103	6,938
Oct.	6,899	192	7,091	221,821	-247	7,338	90	7,248
Nov.	6,962	259	7,221	219,141	-105	7,327	66	7,261
Dec.	6,903	264	7,167	221,537	118	7,048	53	6,995

See notes and sources at end of table

United States Supply and Demand for Total Gasoline(a)
(Daily Averages in Thousands of Barrels)

Year	Supply Production	 Imports	 New Supply	Stocks at end of period(e) (thous of barrels)	Demand Change in Stocks	 Total Demand	 Exports	 Domestic Demand(f)
1991	6,997	297	7,294	220,692	3	7,293	82	7,211
Jan.	6,649	228	6,877	227,050	166	6,711	50	6,661
Feb.	6,592	115	6,707	221,215	-251	6,958	102	6,856
Mar.	6,659	235	6,894	211,592	-240	7,134	97	7,037
Apr.	6,760	381	7,141	206,681	-71	7,212	53	7,159
May	7,090	528	7,618	211,273	97	7,521	59	7,462
Jun.	7,379	365	7,744	216,323	161	7,583	99	7,484
Jul.	7,308	232	7,540	210,378	-174	7,714	122	7,592
Aug.	7,272	385	7,657	210,406	1	7,656	98	7,558
Sep.	7,056	312	7,368	217,967	195	7,172	63	7,109
Oct.	6,771	236	7,007	204,920	-353	7,360	58	7,302
Nov.	7,031	322	7,353	210,549	223	7,130	104	7,026
Dec.	7,370	216	7,586	220,692	268	7,319	79	7,240
1992(p)								
Jan.	7,065	237	7,302	231,119	306	6,996	87	6,909
Feb.	6,770	270	7,040	229,325	-47	7,085	59	7,026
Mar.	6,713	247	6,960	221,443	-276	7,237	71	7,166
Apr.	6,976	428	7,404	218,170	39	7,365	90	7,275
May	7,127	371	7,498	221,533	105	7,394	82	7,312

(a) Includes motor and aviation gasoline.

(b) These figures and those for subsequent years are on a 50 state basis.

(c) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels.

(d) U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year end 1980 stocks were 265,802 thousand barrels. This figure was used to compute the 1981 stock change.

(e) Includes blending components.

(f) Totals may not add due to independent rounding.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues
1976-1980: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1964(a)	4,399	29	4,428	185,766	23	4,405	2	4,403
1965	4,537	27	4,564	174,717	-30	4,594	1	4,593
1966	4,798	43	4,841	186,393	32	4,810	2	4,808
1967	4,956	42	4,998	200,055	37	4,961	3	4,958
1968	5,215	59	5,274	204,496	12	5,261	1	5,260
1969	5,484	62	5,546	211,199	18	5,528	2	5,526
1970	5,714	67	5,781	209,255	-5	5,786	1	5,785
1971	5,984	59	6,043	219,352	28	6,015	1	6,014
1972	6,292	68	6,360	212,894	-18	6,378	1	6,377
1973	6,535	134	6,669	209,478	-9	6,678	4	6,674
1974	6,360	204	6,564	218,410 (b)	24	6,540	2	6,538
1975	6,520	184	6,704	234,978	28	6,676	2	6,674
1976	6,841	131	6,972	231,387	-10	6,981	3	6,978
1977	7,033	217	7,250	257,623	72	7,177	2	7,175
1978(c)	7,169	190	7,359	237,979	-54	7,413	1	7,412
1979(c)	7,120	181	7,301	237,200	-1	7,302	0	7,302
1980(c)	6,814	140	6,954	261,398	66	6,888	1	6,887
1981	6,405	157	6,562	253,001	-28	6,590	2	6,588
1982	6,338	197	6,535	235,431	-25	6,560	20	6,539
1983	6,340	247	6,587	222,434	-45	6,632	10	6,622
1984	6,453	299	6,752	243,296	54	6,698	6	6,693
1985	6,419	381	6,800	222,839	-41	6,841	10	6,831
Jan.	5,926	204	6,130	233,663	-220	6,350	2	6,348
Feb.	5,914	348	6,262	224,884	-327	6,589	2	6,587
Mar.	6,072	481	6,553	218,816	-115	6,668	3	6,664
Apr.	6,344	494	6,838	214,979	-128	6,966	11	6,956
May	6,564	480	7,044	214,875	-23	7,067	8	7,060
Jun.	6,780	396	7,176	218,344	172	7,004	7	6,997
Jul.	6,788	426	7,214	226,471	188	7,026	18	7,008
Aug.	6,814	305	7,119	221,583	-127	7,246	4	7,242
Sep.	6,299	314	6,613	223,098	-22	6,635	6	6,629
Oct.	6,356	324	6,680	213,853	-235	6,915	19	6,897
Nov.	6,480	410	6,890	217,013	104	6,786	17	6,770
Dec.	6,651	386	7,037	222,839	227	6,810	18	6,792

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1986	6,752	326	7,078	233,057	11	7,067	33	7,034
Jan.	6,522	332	6,854	238,330	347	6,507	6	6,502
Feb.	6,301	334	6,635	243,530	156	6,479	11	6,469
Mar.	6,060	224	6,284	218,756	-691	6,975	21	6,955
Apr.	6,498	291	6,789	207,454	-338	7,127	23	7,105
May	7,094	471	7,565	220,502	450	7,115	9	7,106
Jun.	7,100	392	7,492	230,480	265	7,227	18	7,209
Jul.	6,956	337	7,293	224,028	-189	7,482	47	7,436
Aug.	7,091	303	7,394	221,586	-83	7,477	43	7,435
Sep.	6,890	303	7,193	233,945	289	6,904	40	6,864
Oct.	6,616	322	6,938	222,356	-372	7,312	61	7,250
Nov.	6,895	280	7,175	229,370	200	6,975	96	6,879
Dec.	6,969	320	7,289	233,057	122	7,167	24	7,143
1987	6,841	384	7,225	226,183	-15	7,241	35	7,206
Jan.	6,714	393	7,107	251,111	528	6,579	44	6,535
Feb.	6,365	309	6,674	250,082	-144	6,818	22	6,796
Mar.	6,568	364	6,932	248,050	-51	6,984	20	6,964
Apr.	6,849	374	7,223	241,750	-133	7,356	42	7,314
May	6,991	354	7,345	234,908	-164	7,508	48	7,460
Jun.	7,089	385	7,474	230,421	-111	7,585	46	7,539
Jul.	7,042	452	7,494	226,353	-119	7,614	33	7,581
Aug.	6,932	396	7,328	226,459	-29	7,357	19	7,338
Sep.	6,921	421	7,342	229,648	107	7,235	30	7,205
Oct.	6,668	356	7,024	218,022	-302	7,326	21	7,305
Nov.	6,907	484	7,391	225,190	208	7,183	32	7,151
Dec.	7,014	320	7,334	226,183	24	7,310	59	7,251
1988	6,956	405	7,361	228,403	3	7,358	22	7,336
Jan.	6,730	357	7,087	240,268	387	6,701	8	6,693
Feb.	6,736	397	7,133	241,358	75	7,057	18	7,039
Mar.	6,715	349	7,064	231,743	-277	7,341	18	7,323
Apr.	6,907	399	7,306	226,700	-142	7,448	18	7,430
May	6,850	437	7,287	226,108	-43	7,331	28	7,303
Jun.	6,982	428	7,410	210,088	-465	7,876	59	7,817
Jul.	7,159	482	7,641	215,273	148	7,494	12	7,482
Aug.	7,209	494	7,703	220,097	131	7,571	15	7,556
Sep.	6,948	443	7,391	221,346	-28	7,420	16	7,404
Oct.	6,857	352	7,209	217,690	-75	7,284	13	7,271
Nov.	7,060	451	7,511	221,235	118	7,394	15	7,379
Dec.	7,303	277	7,580	228,403	192	7,389	45	7,344

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1989	6,963	369	7,332	213,441	-35	7,367	39	7,328
Jan.	6,937	353	7,290	248,574	512	6,778	33	6,745
Feb.	6,650	423	7,073	247,540	-70	7,143	24	7,119
Mar.	6,612	381	6,993	230,340	-471	7,464	43	7,421
Apr.	6,811	370	7,181	227,147	-22	7,203	46	7,157
May	6,894	355	7,249	223,219	-163	7,412	31	7,381
Jun.	7,275	386	7,661	216,353	-179	7,840	60	7,780
Jul.	7,360	383	7,743	228,903	390	7,353	57	7,296
Aug.	7,155	360	7,515	220,676	-260	7,775	58	7,717
Sep.	7,069	320	7,389	226,691	118	7,271	31	7,240
Oct.	6,845	389	7,234	222,456	-97	7,331	29	7,302
Nov.	7,046	406	7,452	223,609	81	7,371	18	7,353
Dec.	6,884	306	7,190	213,441	-257	7,447	37	7,410
1990	6,959	342	7,301	219,633	10	7,290	55	7,235
Jan.	6,879	417	7,296	236,261	621	6,674	31	6,643
Feb.	6,989	411	7,400	244,982	169	7,232	53	7,179
Mar.	6,613	270	6,893	227,291	-499	7,383	45	7,338
Apr.	6,775	328	7,103	222,952	-45	7,149	28	7,121
May	6,610	585	7,195	217,465	-189	7,383	25	7,358
Jun.	7,101	376	7,477	212,602	-93	7,571	52	7,519
Jul.	7,238	432	7,670	218,165	133	7,537	41	7,496
Aug.	7,326	313	7,639	209,689	-233	7,873	77	7,796
Sep.	7,274	254	7,528	228,636	511	7,017	103	6,914
Oct.	6,880	192	7,072	219,956	-244	7,316	90	7,226
Nov.	6,940	259	7,199	217,212	-108	7,307	66	7,241
Dec.	6,887	264	7,151	219,633	119	7,031	53	6,978
1991	6,975	297	7,272	219,035	3	7,270	82	7,188
Jan.	6,629	228	6,857	225,023	162	6,695	50	6,645
Feb.	6,573	115	6,688	219,186	-252	6,940	102	6,838
Mar.	6,643	235	6,878	209,694	-236	7,114	97	7,017
Apr.	6,742	381	7,123	204,942	-67	7,190	53	7,137
May	7,063	528	7,591	209,471	95	7,496	59	7,437
Jun.	7,351	364	7,715	214,451	160	7,555	99	7,456
Jul.	7,274	232	7,506	208,454	-177	7,683	122	7,561
Aug.	7,247	385	7,632	208,669	7	7,626	98	7,528
Sep.	7,030	312	7,342	216,211	195	7,146	63	7,083
Oct.	6,749	236	6,985	203,140	-354	7,339	58	7,281
Nov.	7,018	322	7,340	208,917	228	7,112	104	7,008
Dec.	7,354	216	7,570	219,035	257	7,303	79	7,224

See notes and sources at end of table

Total United States Supply and Demand for Motor Gasoline
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period(d) (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (e)
1992(p)								
Jan.	7,043	237	7,280	229,285	300	6,980	87	6,893
Feb.	6,753	270	7,023	229,325	-41	7,063	59	7,004
Mar.	6,694	247	6,941	219,812	-276	7,216	71	7,145
Apr.	6,958	428	7,386	216,58[illegible]	41	7,345	90	7,255
May	7,100	370	7,470	219,849	101	7,370	82	7,288

(a) Data prior to 1964 is not available on a comparable basis.

(b) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.

(c) In 1981, the Department of Energy changed their methodology for calculating motor gasoline_ distillate_ and residual product supplies. Based on this raw methodology, API has reconstructed DOE data for 1978, 1979, and 1980. The stock reporting base was also altered as of January 1981. On the new basis, year-end 1980 stocks were 263,003 thousand barrels. This figure was used to compute the 1981 stock change.

(d) Includes motor gasoline blending components.

(e) Totals do not add due to independent rounding.

SOURCE: 1964-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annuals, and Monthlies.

Section VII
Table 5

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1947	864	12	876	51,081	-23	899	82	817
1948	1,046	7	1,053	71,429	64	989	58	931
1949	941	5	946	75,207	10	936	34	902
1950	1,100	7	1,107	71,948	-10	1,117	35	1,082
1951	1,311	5	1,316	86,619	29	1,287	62	1,225
1952	1,422	8	1,430	99,375	35	1,395	92	1,303
1953	1,452	9	1,461	111,741	35	1,426	89	1,337
1954	1,490	9	1,499	108,144	-9	1,508	66	1,442
1955	1,656	12	1,668	111,333	9	1,659	67	1,592
1956	1,825	14	1,839	133,981	62	1,777	94	1,683
1957	1,838	23	1,861	149,449	42	1,819	131	1,688
1958	1,734	41	1,775	125,101	-67	1,842	52	1,790
1959(a)	1,865	48	1,913	151,164	70	1,843	35	1,808
1960	1,830	35	1,865	138,455	-34	1,899	27	1,872
1961	1,911	47	1,958	152,018	37	1,921	19	1,902
1962	1,975	33	2,008	144,505	-21	2,029	22	2,007
1963	2,098	25	2,123	156,677	35	2,088	41	2,047
1964	2,031	32	2,063	155,846	-2	2,065	15	2,050
1965	2,099	36	2,135	155,407	-1	2,136	10	2,126
1966	2,155	38	2,193	154,096	-4	2,197	12	2,185
1967(b)	2,207	51	2,258	159,703	5	2,253	12	2,241
1968	2,299	131	2,430	173,158	37	2,393	4	2,389
1969	2,326	139	2,465	171,714	-4	2,469	3	2,466
1970	2,460	148	2,608	195,271	65	2,543	3	2,540
1971	2,503	153	2,656	190,622	-13	2,669	8	2,661
1972	2,636	181	2,817	154,319	-99	2,916	3	2,913
1973	2,822	392	3,214	196,461	115	3,101	9	3,092
1974	2,669	289	2,958	200,068 (c)	10	2,950	2	2,948
1975	2,654	155	2,809	208,833	-40	2,852	1	2,851
1976	2,924	146	3,070	185,986	-62	3,134	1	3,133
1977	3,278	250	3,528	250,295	176	3,353	1	3,352
1978(d)	3,171	173	3,344	216,463	-93	3,438	3	3,435
1979(d)	3,167	197	3,364	228,729	34	3,330	3	3,327
1980(d)	2,769	139	2,908	205,132	-64	2,972	3	2,969
1981	2,613	173	2,786	191,541	-38	2,834	5	2,829
1982	2,606	93	2,699	178,592	-35	2,745	74	2,671
1983(e)	2,456	174	2,630	140,263	-124	2,754	64	2,690
1984	2,681	272	2,953	161,072	57	2,896	51	2,845

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1985	2,687	200	2,887	143,673	-48	2,935	67	2,868
Jan.	2,631	272	2,903	142,384	-603	3,506	41	3,465
Feb.	2,503	143	2,646	121,439	-748	3,394	64	3,330
Mar.	2,267	156	2,423	99,293	-714	3,137	44	3,093
Apr.	2,490	253	2,743	96,845	-82	2,825	27	2,798
May	2,686	197	2,883	104,432	245	2,638	31	2,607
Jun.	2,647	152	2,799	109,688	175	2,624	30	2,594
Jul.	2,646	95	2,741	115,683	193	2,548	112	2,436
Aug.	2,592	81	2,673	113,755	-62	2,736	100	2,636
Sep.	2,594	222	2,816	117,367	120	2,696	121	2,575
Oct.	2,902	262	3,164	123,417	195	2,968	67	2,901
Nov.	3,103	280	3,383	139,719	543	2,839	92	2,747
Dec.	3,175	287	3,462	143,673	128	3,334	81	3,253
1986	2,798	247	3,045	155,097	31	3,014	100	2,914
Jan.	2,899	325	3,224	136,490	-232	3,456	126	3,330
Feb.	2,563	169	2,732	112,402	-860	3,592	176	3,416
Mar.	2,643	217	2,860	98,811	-438	3,299	131	3,168
Apr.	2,787	147	2,934	95,907	-97	3,032	128	2,904
May	2,858	149	3,007	98,857	95	2,911	149	2,762
Jun.	2,729	169	2,898	107,895	301	2,597	53	2,544
Jul.	2,710	313	3,023	118,905	355	2,668	75	2,593
Aug.	2,922	370	3,292	137,737	607	2,685	64	2,621
Sep.	2,865	262	3,127	152,403	489	2,638	98	2,540
Oct.	2,717	243	2,960	151,617	-25	2,986	74	2,912
Nov.	2,916	254	3,170	158,263	222	2,948	72	2,876
Dec.	2,943	339	3,282	155,097	-102	3,384	55	3,329
1987	2,730	255	2,985	134,485	-56	3,042	66	2,976
Jan.	2,760	222	2,982	141,342	-444	3,425	115	3,310
Feb.	2,556	253	2,809	123,730	-629	3,438	93	3,345
Mar.	2,422	297	2,719	109,332	-464	3,183	67	3,116
Apr.	2,552	192	2,744	100,338	-300	3,044	53	2,991
May	2,563	203	2,766	101,286	31	2,735	51	2,684
Jun.	2,689	265	2,954	104,391	104	2,851	61	2,790
Jul.	2,700	381	3,081	114,602	329	2,751	38	2,713
Aug.	2,705	222	2,927	124,735	327	2,600	47	2,553
Sep.	2,748	222	2,970	126,762	68	2,902	64	2,838
Oct.	2,780	237	3,017	120,974	-187	3,204	53	3,151
Nov.	3,036	187	3,223	128,004	234	2,988	56	2,932
Dec.	3,241	378	3,619	134,485	209	3,410	92	3,318

See notes and sources at end of table

Section VII
Table 5b

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1988	2,858	302	3,160	123,517	-30	3,191	69	3,122
Jan.	3,009	424	3,433	128,098	-206	3,640	82	3,558
Feb.	2,667	383	3,050	110,301	-614	3,664	107	3,557
Mar.	2,706	247	2,953	89,843	-660	3,613	74	3,539
Apr.	2,867	210	3,077	94,972	171	2,906	42	2,864
May	2,936	253	3,189	104,879	320	2,869	74	2,795
Jun.	2,893	222	3,115	110,418	185	2,930	76	2,854
Jul.	2,784	222	3,006	119,955	308	2,698	58	2,640
Aug.	2,848	279	3,127	125,689	185	2,943	70	2,873
Sep.	2,778	307	3,085	131,451	192	2,893	72	2,821
Oct.	2,827	336	3,163	128,248	-103	3,266	48	3,218
Nov.	2,910	327	3,237	128,805	19	3,217	34	3,183
Dec.	3,068	409	3,477	123,517	-171	3,647	87	3,560
1989	2,899	306	3,205	105,700	-49	3,254	97	3,157
Jan.	2,974	346	3,320	120,620	-93	3,413	110	3,303
Feb.	2,797	331	3,128	107,648	-463	3,591	164	3,427
Mar.	2,713	439	3,152	96,736	-352	3,504	76	3,428
Apr.	2,789	301	3,090	98,541	59	3,031	56	2,975
May	2,750	290	3,040	99,618	35	3,005	51	2,954
Jun.	2,809	233	3,042	99,613	1	3,041	39	3,002
Jul.	2,848	334	3,182	115,036	497	2,685	89	2,596
Aug.	2,907	254	3,161	116,306	41	3,120	154	2,966
Sep.	2,952	249	3,201	123,226	231	2,970	81	2,889
Oct.	2,906	261	3,167	121,691	-50	3,217	90	3,127
Nov.	3,063	307	3,370	119,764	-64	3,434	123	3,311
Dec.	3,266	324	3,590	105,700	-454	4,044	130	3,914
1990	2,925	278	3,203	132,204	73	3,130	109	3,021
Jan.	3,130	505	3,635	117,729	388	3,247	62	3,185
Feb.	2,753	357	3,110	111,718	-215	3,325	65	3,260
Mar.	2,657	281	2,938	98,866	-415	3,352	75	3,277
Apr.	2,803	308	3,111	99,146	9	3,102	59	3,043
May	2,874	209	3,083	102,509	108	2,975	75	2,900
Jun.	2,996	257	3,253	109,885	246	3,007	84	2,923
Jul.	3,008	236	3,244	124,979	487	2,756	30	2,726
Aug.	3,131	293	3,424	129,808	156	3,269	51	3,218
Sep.	2,968	226	3,194	136,015	207	2,987	123	2,864
Oct.	2,928	190	3,118	136,270	8	3,110	150	2,960
Nov.	2,915	238	3,153	132,407	-129	3,282	188	3,094
Dec.	2,917	239	3,156	132,204	-7	3,163	347	2,816

See notes and sources at end of table

Total United States Supply and Demand for Distillate Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand (f)
1991	2,962	205	3,167	143,515	31	3,136	215	2,921
Jan.	2,845	192	3,037	111,697	-662	3,699	332	3,367
Feb.	2,870	139	3,009	101,639	-359	3,369	393	2,976
Mar.	2,865	206	3,071	98,179	-112	3,182	198	2,984
Apr.	2,819	258	3,077	102,865	156	2,920	81	2,839
May	2,929	186	3,115	106,945	132	2,983	218	2,765
Jun.	2,941	209	3,150	113,698	225	2,925	150	2,775
Jul.	2,998	155	3,153	124,740	356	2,797	149	2,648
Aug.	2,961	168	3,129	131,377	214	2,914	144	2,770
Sep.	3,055	237	3,292	140,117	291	3,001	136	2,865
Oct.	3,040	207	3,247	138,278	-59	3,306	259	3,047
Nov.	3,103	249	3,352	144,458	206	3,145	224	2,921
Dec.	3,107	252	3,359	143,515	-30	3,389	302	3,087
1992(p)								
Jan.	2,818	227	3,045	126,719	-541	3,586	360	3,226
Feb.	2,681	207	2,888	108,473	-629	3,516	278	3,238
Mar.	2,753	218	2,971	97,739	-346	3,317	138	3,179
Apr.	2,954	202	3,156	92,028	-190	3,346	278	3,068
May	2,939	179	3,118	96,543	146	2,973	222	2,751

(a) These figures and those for subsequent years are on a 50-state basis.
(b) Production and stocks at gas processing plants are included in this and subsequent years.
(c) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change.
(d) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate, and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979, and 1980.
(e) In 1983, DOE changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised stock figures for 1982.
(f) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Annual Petroleum Statements.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1947	1,301	149	1,450	47,091	--	1,450	29	1,421
1948	1,329	146	1,475	64,021	72	1,403	36	1,367
1949	1,177	206	1,383	60,193	-11	1,394	35	1,359
1950	1,180	329	1,509	40,750	-53	1,562	45	1,517
1951	1,302	327	1,629	42,853	3	1,626	80	1,546
1952	1,257	351	1,608	48,706	16	1,592	76	1,516
1953	1,248	360	1,608	49,370	2	1,606	71	1,535
1954	1,158	354	1,512	52,105	8	1,504	73	1,431
1955	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,183	445	1,628	44,491	15	1,613	76	1,537
1957	1,176	475	1,651	59,959	42	1,609	105	1,504
1958	1,025	499	1,524	59,508	-1	1,525	70	1,455
1959(a)	973	610	1,583	53,501	-18	1,601	57	1,544
1960	918	637	1,555	44,870	-24	1,579	51	1,528
1961	875	667	1,542	44,869	--	1,542	39	1,503
1962	820	724	1,544	49,996	14	1,530	35	1,495
1963	765	747	1,512	47,538	-6	1,518	42	1,476
1964	739	808	1,547	40,403	-20	1,567	52	1,515
1965	746	946	1,692	56,214	43	1,649	41	1,608
1966	733	1,032	1,765	61,196	14	1,751	35	1,716
1967	766	1,085	1,851	65,597	5	1,846	60	1,786
1968	765	1,120	1,885	67,359	5	1,880	54	1,826
1969	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	765	1,583	2,348	59,681	16	2,332	36	2,296
1972	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	988	1,853	2,841	53,480	-5	2,845	23	2,822
1974	1,083	1,587	2,670	59,694 (b)	17	2,653	14	2,639
1975	1,250	1,223	2,473	74,126	-2	2,477	15	2,462
1976	1,394	1,413	2,807	72,344	-5	2,813	12	2,801
1977	1,767	1,359	3,126	89,993	49	3,077	6	3,071
1978(c)	1,681	1,355	3,036	90,194	1	3,037	13	3,024
1979(c)	1,708	1,151	2,859	95,598	15	2,844	9	2,835
1980(c)	1,660	920	2,580	90,344	-14	2,594	33	2,561
1981	1,369	800	2,169	77,992	-37	2,206	118	2,088
1982	1,118	776	1,894	66,200	-32	1,925	209	1,716
1983(d)	852	699	1,551	48,504	-55	1,606	185	1,421
1984	891	681	1,572	53,000	12	1,559	190	1,369

See notes and sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1985	862	510	1,392	50,381	-7	1,399	197	1,202
Jan.	1,004	568	1,572	46,201	-219	1,792	312	1,480
Feb.	1,040	580	1,620	45,053	-41	1,661	295	1,366
Mar.	963	477	1,440	46,127	35	1,406	216	1,190
Apr.	912	383	1,295	46,195	2	1,293	167	1,126
May	793	394	1,187	41,397	-155	1,341	185	1,156
Jun.	702	400	1,102	39,622	-59	1,161	118	1,043
Jul.	732	437	1,169	40,507	29	1,141	83	1,058
Aug.	742	424	1,166	37,164	-108	1,274	106	1,168
Sep.	808	617	1,425	43,359	207	1,219	188	1,031
Oct.	912	541	1,453	50,418	228	1,225	184	1,041
Nov.	932	627	1,559	50,263	-5	1,565	275	1,290
Dec.	1,055	681	1,736	50,381	4	1,733	250	1,483
1986	889	669	1,558	47,437	-8	1,565	147	1,418
Jan.	940	622	1,562	48,655	-56	1,618	211	1,407
Feb.	856	604	1,460	43,048	-200	1,661	183	1,478
Mar.	813	626	1,439	39,709	-108	1,548	113	1,435
Apr.	933	545	1,478	35,910	-127	1,604	202	1,402
May	913	675	1,588	39,431	114	1,474	129	1,345
Jun.	818	712	1,530	42,767	111	1,420	43	1,377
Jul.	850	673	1,523	40,333	-75	1,598	90	1,508
Aug.	896	793	1,689	41,346	29	1,659	174	1,485
Sep.	854	641	1,495	44,006	89	1,406	110	1,296
Oct.	827	635	1,462	45,822	59	1,403	144	1,259
Nov.	975	574	1,549	46,275	15	1,534	143	1,391
Dec.	987	913	1,900	47,437	37	1,862	224	1,638
1987	885	565	1,450	47,410	--	1,450	186	1,264
Jan.	920	701	1,621	44,931	-81	1,702	198	1,504
Feb.	825	668	1,493	38,140	-243	1,736	221	1,515
Mar.	863	559	1,422	39,303	38	1,384	150	1,234
Apr.	831	476	1,307	35,890	-114	1,421	239	1,182
May	813	505	1,318	40,371	145	1,173	144	1,029
Jun.	864	481	1,345	41,356	33	1,312	105	1,207
Jul.	901	721	1,622	44,694	108	1,514	175	1,339
Aug.	882	512	1,394	45,690	32	1,361	185	1,176
Sep.	904	526	1,430	44,417	-42	1,473	177	1,296
Oct.	887	414	1,301	45,619	39	1,263	194	1,069
Nov.	928	568	1,496	49,975	145	1,351	146	1,205
Dec.	1,001	650	1,651	47,410	-83	1,734	300	1,434

See notes and sources at end of table

Section VII
Table 6b

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1988	926	644	1,570	44,621	-8	1,578	200	1,378
Jan.	1,002	805	1,807	46,033	-44	1,851	190	1,661
Feb.	994	901	1,895	45,090	-33	1,927	229	1,698
Mar.	948	650	1,598	43,746	-43	1,641	165	1,476
Apr.	960	495	1,455	42,756	-33	1,488	170	1,318
May	862	432	1,294	45,662	94	1,201	263	938
Jun.	880	336	1,216	42,165	-117	1,332	249	1,083
Jul.	906	479	1,385	41,007	-37	1,423	206	1,217
Aug.	866	581	1,447	38,007	-97	1,545	225	1,320
Sep.	852	698	1,550	44,592	220	1,330	100	1,230
Oct.	852	603	1,455	42,470	-68	1,524	181	1,343
Nov.	916	785	1,701	44,003	51	1,650	146	1,504
Dec.	1,069	975	2,044	44,621	20	2,025	271	1,754
1989	954	629	1,583	43,838	-2	1,585	215	1,370
Jan.	949	909	1,858	47,232	84	1,774	151	1,623
Feb.	930	877	1,807	45,607	-58	1,865	146	1,719
Mar.	937	706	1,643	41,644	-128	1,771	220	1,551
Apr.	904	681	1,585	40,075	-52	1,637	236	1,401
May	934	538	1,472	42,473	77	1,395	276	1,119
Jun.	953	533	1,486	44,101	55	1,431	208	1,223
Jul.	862	556	1,418	42,742	-44	1,462	176	1,286
Aug.	903	501	1,404	44,541	58	1,346	225	1,121
Sep.	856	454	1,310	49,399	163	1,147	137	1,010
Oct.	1,001	583	1,584	50,935	50	1,535	243	1,292
Nov.	1,075	543	1,618	52,373	48	1,570	330	1,240
Dec.	1,140	680	1,820	43,838	-276	2,096	226	1,870
1990	950	504	1,454	48,561	13	1,440	211	1,229
Jan.	1,163	825	1,988	50,206	205	1,783	186	1,597
Feb.	1,060	663	1,723	51,218	36	1,688	214	1,474
Mar.	976	335	1,311	46,307	-158	1,469	277	1,192
Apr.	882	559	1,441	49,009	-90	1,351	200	1,151
May	884	507	1,391	49,696	22	1,368	141	1,227
Jun.	926	485	1,411	46,769	-98	1,509	207	1,302
Jul.	987	536	1,523	49,000	72	1,451	171	1,280
Aug.	944	574	1,518	48,975	-1	1,518	280	1,238
Sep.	909	313	1,222	49,436	15	1,207	200	1,007
Oct.	799	383	1,182	49,349	-3	1,186	160	1,026
Nov.	846	387	1,233	50,098	25	1,208	243	965
Dec.	1,021	484	1,505	48,561	-50	1,555	259	1,296

See notes and sources at end of table

Total United States Supply and Demand for Residual Fuel Oil
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(e)
1991	934	453	1,387	49,899	4	1,384	226	1,158
Jan.	1,001	425	1,426	47,957	-19	1,444	320	1,124
Feb.	1,050	384	1,434	45,832	-76	1,510	299	1,211
Mar.	995	332	1,327	43,201	-85	1,412	178	1,234
Apr.	916	416	1,332	45,241	68	1,264	145	1,119
May	929	425	1,354	46,804	50	1,303	300	1,003
Jun.	933	512	1,445	43,719	-103	1,548	245	1,303
Jul.	871	420	1,291	43,684	-1	1,293	176	1,117
Aug.	925	599	1,524	45,789	68	1,456	216	1,240
Sep.	838	481	1,319	48,124	78	1,242	168	1,074
Oct.	814	438	1,252	48,319	6	1,246	217	1,029
Nov.	896	455	1,351	49,038	24	1,328	189	1,139
Dec.	1,051	547	1,598	49,899	29	1,571	264	1,307
1992(p)								
Jan.	964	352	1,316	44,327	-180	1,497	184	1,313
Feb.	956	487	1,443	42,986	-46	1,490	176	1,314
Mar.	989	392	1,381	40,436	-82	1,463	310	1,153
Apr.	899	342	1,241	38,271	-72	1,313	265	1,048
May	964	328	1,292	39,968	55	1,237	207	1,030

(a) These figures and those for subsequent years are on a 50 state basis.
(b) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change.
(c) In 1981, the Department of Energy changed their methodology for calculating motor gasoline, distillate and residual product supplied. Based on this new methodology, API has reconstructed DOE data for 1978, 1979, and 1980.
(d) In 1983, the Department of Energy changed their methodology for calculating stocks. The 1983 stock change is based on DOE's revised figure for 1982.
(e) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Deliveries of Distillate and Residual Fuel Oil to Electric Utilities
(Thousands of Barrels per Day)

Year	Distillate(d)	Residual	Total	Total Fuel Oil Demand All Sectors
1947	39	167	206	2,238
1948	41	155	196	2,298
1949	34	219	253	2,261
1950	36	255	291	2,599
1951	26	193	219	2,771
1952	23	192	215	2,819
1953	19	234	253	2,872
1954	17	194	211	2,873
1955	16	208	224	3,118
1956	15	202	217	3,220
1957	15	210	225	3,192
1958	15	211	226	3,245
1959 (a)	14	225	239	3,352
1960 (b)	13	233	246	3,400
1961	11	241	252	3,405
1962	11	242	253	3,502
1963	11	251	262	3,523
1964	10	267	277	3,565
1965	10	315	325	3,734
1966	10	378	388	3,901
1967 (c)	8	434	442	4,027
1968	23	505	528	4,215
1969	33	679	712	4,444
1970	68	856	924	4,744
1971	97	1,019	1,116	4,957
1972 (e)	187	1,189	1,376	5,442
1973 (e)	214	1,396	1,610	5,914
1974 (e)	232	1,302	1,534	5,587
1975 (e)	174	1,246	1,420	5,313
1976 (e)	165	1,351	1,516	5,934
1977 (e)	210	1,560	1,770	6,423
1978 (e)	211	1,461	1,672	6,459
1979	128	1,333	1,461	6,162
1980	87	1,066	1,153	5,530
1981	50	892	942	4,917
1982	33	623	656	4,387
1983	32	560	592	4,111
1984	45	509	554	4,214
1985	34	403	437	4,070
1986	40	590	630	4,333
1987	42	498	540	4,241
1988	52	622	674	4,499
1989	70	639	709	4,527

See notes and sources at end of table

Deliveries of Distillate and Residual Fuel Oil to Electric Utilities
(Thousands of Barrels per Day)

Year	Distillate(d)	Residual	Total	Total Fuel Oil Demand All Sectors
1990	48	550	598	4,249

(a) These data include Alaska but not Hawaii.
(b) These data and those for subsequent years are on a 50-state basis.
(c) Data is for electric public utility power plants only.
(d) Beginning in 1968, these data include distillate sales for gas turbine plants.
(e) Includes kerosine jet fuel; 1972-24,000 bbls. per day; 1973-17,000 bbls. per day; 1974-14,000 bbls. per day; 1975-9,000 bbls. per day; 1976-11,600 bbls. per day; 1977-17,419 bbls. per day; 1978--12,342 bbls. per day.

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine
1976-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals
1979-1983: U.S. Energy Information Administration, Petroleum Supply Annuals
1984-1989: U.S. Energy Information Administration, Petroleum Marketing Monthly & Annual

Section VII
Table 8

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1962(b)	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499	1,862,659
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,603	90,489	92,064	111,594	123,995	163,070
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	857,887	933,764	998,011	1,094,225	1,201,122	1,147,782
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993	1,152,195
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,684	9,363,091	9,995,752	10,307,287	9,887,993
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,840	1,109,271	1,187,015	1,295,516	1,356,428	1,301,967
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085	1,327,308
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316	296,489
Dist. of Col.	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626	240,457
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798	4,205,193
Georgia	1,404,674	1,465,671	1,563,737	1,655,099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556	2,739,639
Hawaii	151,197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887	277,849
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	353,990	379,479	400,735	421,403	451,315	468,321	457,785
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,816	4,408,829	4,596,788	4,836,883	5,048,307	5,024,751
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,485	2,739,043
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666	1,647,054
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,184,298	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262	1,329,122
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,696	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508	1,676,588
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770	1,756,343
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231	520,051
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,367,611	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506	1,789,440
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441	2,296,921
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,537,187	4,748,355	4,565,132
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580	2,034,085
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423	1,195,373
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190	2,628,598
Montana	309,869	309,609	313,450	327,979	334,344	342,289	361,060	371,950	395,762	425,158	427,048	440,456	448,019
Nebraska	633,965	655,102	676,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846	868,296
Nevada	184,637	205,360	218,989	233,702	242,024	247,239	269,741	285,519	314,702	333,806	365,954	389,776	382,610
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937	390,559
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118	3,174,698
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,830	686,811	683,532
New York	4,068,568	4,198,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,121	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799	5,997,859
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722	2,820,286
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026	411,328
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284	5,006,097
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,157	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001	1,675,497
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689	1,187,671
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,667	4,458,007	4,768,816	4,836,463	4,813,878
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135	371,740
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,064,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738	1,456,658
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,698	420,859	439,796	464,493	474,646	456,444
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089	2,181,836
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,305,427	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539	7,099,280
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731	616,419
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662	235,325
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181	2,441,443
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314	1,666,944
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331	766,439
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977	2,145,544
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,693	233,411	246,667	256,601	279,080	293,571	294,460
TOTAL	62,531,373	64,779,104	67,663,848	70,337,126	73,638,872	76,139,326	80,772,657	85,416,084	89,405,266	93,907,352	100,068,575	104,579,479	101,855,749

See notes and sources at end of table

Section VII
Table 8a

Motor Gasoline Consumption in the United States(a) (Thousands of Gallons)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	1,918,203	2,028,878	2,098,979	2,181,179	2,093,703	1,962,046	1,849,225	1,840,396	1,861,406	1,905,267	1,881,466	2,012,114	2,084,218
Alaska	193,725	214,140	204,006	209,118	219,472	201,373	212,804	235,112	221,229	248,993	267,709	256,534	242,578
Arizona	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722	1,344,438	1,341,613	1,410,904	1,489,965	1,555,905	1,635,083	1,683,355
Arkansas	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800	1,137,998	1,123,466	1,128,357	1,193,067	1,166,202	1,212,035	1,241,796
California	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050	10,842,862	10,660,534	11,032,662	11,413,578	11,656,251	12,175,654	12,543,126
Colorado	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288	1,506,429	1,513,235	1,560,776	1,514,511	1,558,918	1,592,000	1,565,700
Connecticut	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582	1,296,048	1,284,966	1,308,077	1,339,766	1,393,470	1,443,603	1,484,832
Delaware	303,545	316,973	314,070	313,277	306,489	293,851	290,581	282,463	308,772	320,247	326,204	333,247	338,285
Dist. of Col.	243,215	229,031	225,434	221,831	214,782	171,451	171,082	170,518	168,019	181,199	163,074	167,549	181,371
Florida	4,345,632	4,507,541	4,668,677	4,929,713	4,905,642	4,810,520	4,845,057	4,900,197	5,078,234	5,261,730	5,462,027	5,690,765	5,914,706
Georgia	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923	2,809,989	2,818,366	2,904,369	3,053,861	3,148,673	3,313,314	3,421,117
Hawaii	289,772	303,836	320,804	332,512	332,490	354,529	347,848	349,098	355,332	371,084	349,709	364,615	384,958
Idaho	482,462	520,640	530,225	563,708	538,740	488,333	471,054	456,063	459,377	458,332	463,502	469,394	462,202
Illinois	5,127,189	5,327,380	5,423,741	5,565,912	5,186,151	4,816,780	4,598,012	4,522,361	4,609,320	4,733,589	4,836,654	4,731,675	4,772,357
Indiana	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146	2,616,773	2,431,388	2,479,277	2,934,238	2,559,430	2,622,218	2,745,535
Iowa	1,655,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192	1,474,522	1,420,617	1,394,722	1,398,211	1,369,838	1,367,462	1,369,663
Kansas	1,378,773	1,462,585	1,433,106	1,504,662	1,406,812	1,310,568	1,268,609	1,236,159	1,240,248	1,245,120	1,234,260	1,248,854	1,265,811
Kentucky	1,743,523	1,840,476	1,889,170	1,941,387	1,868,006	1,755,397	1,729,135	1,721,620	1,734,296	1,764,567	1,736,511	1,850,343	1,855,460
Louisiana	1,830,011	1,986,865	2,076,106	2,157,919	2,158,327	2,081,328	2,103,397	2,145,094	2,151,035	2,166,617	2,132,374	2,160,554	2,062,830
Maine	536,015	567,427	575,775	586,048	541,664	517,014	497,749	505,620	519,891	530,799	548,083	582,048	606,596
Maryland	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209	1,919,423	1,888,873	1,892,434	1,959,267	1,976,290	2,027,743	2,068,369
Massachusetts	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675	2,249,956	2,235,986	2,266,746	2,340,189	2,388,603	2,458,079	2,491,662
Michigan	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036	4,014,363	3,795,814	3,680,884	4,042,348	4,086,109	4,187,028	4,287,736
Minnesota	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270	1,984,982	1,931,205	1,985,492	2,084,655	2,136,370	2,040,806	2,033,108
Mississippi	1,192,595	1,254,446	1,322,865	1,332,417	1,292,209	1,194,845	1,208,384	1,151,872	1,158,134	1,191,027	1,231,066	1,261,173	1,270,055
Missouri	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627	2,528,616	2,494,373	2,536,042	2,601,207	2,614,239	2,762,114	2,754,512
Montana	461,111	493,245	511,714	531,445	499,397	459,950	445,641	452,371	459,851	455,738	441,744	443,446	440,858
Nebraska	880,948	939,870	939,626	958,879	907,383	816,426	798,518	792,579	776,930	780,071	777,136	776,830	776,125
Nevada	409,496	434,031	464,832	509,705	500,916	500,286	508,535	490,270	489,835	504,530	509,110	535,099	567,686
New Hampshire	401,243	426,860	444,560	456,391	433,556	411,214	398,692	393,276	405,203	434,424	446,902	481,789	514,167
New Jersey	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992	3,150,798	3,172,525	3,371,871	3,358,178	3,311,078	3,524,601	3,586,002
New Mexico	708,455	760,885	779,366	821,722	793,452	746,655	742,486	744,599	740,916	764,343	783,404	800,775	821,713
New York	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549	5,674,946	5,617,353	5,491,074	6,148,506	5,941,935	5,957,386	6,168,884
North Carolina	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274	2,874,700	2,842,968	2,911,221	3,042,021	3,092,963	3,227,688	3,318,096
North Dakota	433,296	452,728	452,771	467,847	443,692	407,250	408,449	403,067	390,085	390,514	385,715	376,068	381,284
Ohio	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574	4,766,658	4,561,134	4,634,793	4,744,494	4,739,030	4,878,206	5,012,222
Oklahoma	1,743,196	1,832,255	1,881,335	1,984,458	1,897,821	1,845,259	1,922,403	1,929,207	1,907,622	1,877,793	1,890,867	1,848,704	1,772,817
Oregon	1,224,276	1,310,983	1,369,886	1,441,866	1,385,047	1,330,612	1,271,001	1,211,110	1,222,903	1,263,213	1,254,669	1,294,515	1,312,919
Pennsylvania	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328	4,474,475	4,384,130	4,370,547	4,422,335	4,429,756	4,523,848	4,590,386
Rhode Island	395,532	384,525	405,832	412,404	397,229	381,826	368,524	360,833	365,634	369,612	379,026	394,173	396,573
South Carolina	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787	1,529,196	1,515,808	1,539,188	1,601,942	1,630,720	1,700,307	1,680,761
South Dakota	501,005	474,182	489,910	497,196	458,549	423,517	403,635	393,021	389,287	389,407	387,453	394,961	392,527
Tennessee	2,367,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939	2,388,466	2,355,395	2,331,655	2,501,396	2,534,948	2,651,534	2,754,514
Texas	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499	8,149,252	8,201,687	8,393,680	8,501,979	8,899,228	9,085,634	8,865,928
Utah	646,942	680,027	714,148	761,968	730,529	734,992	768,450	734,020	725,317	854,992	755,798	766,726	764,441
Vermont	240,270	255,094	260,155	269,204	252,404	238,842	234,114	236,905	242,056	252,093	252,812	259,631	282,232
Virginia	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199	2,530,673	2,490,638	2,554,245	2,865,515	2,719,453	2,815,511	2,993,746
Washington	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513	1,877,364	1,851,127	1,919,152	2,000,333	1,912,436	2,034,097	2,215,350
West Virginia	813,024	872,009	900,930	909,773	888,849	845,242	804,632	810,848	801,736	800,672	801,431	806,401	829,349
Wisconsin	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363	2,067,800	1,982,060	2,011,843	2,022,610	2,022,990	2,061,116	2,046,604
Wyoming	319,042	343,229	361,399	388,681	381,674	373,723	375,068	359,425	338,752	358,077	332,978	328,877	313,409
TOTAL	104,516,610	109,873,935	113,102,038	116,780,787	112,678,296	106,378,366	104,248,792	102,747,005	104,231,431	108,248,222	108,876,519	111,933,927	113,930,531

See notes and sources at end of table

Section VII
Table 8b

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

State	1988	1989	1990
Alabama	2,072,236	2,122,111	2,120,444
Alaska	246,038	239,017	274,133
Arizona	1,708,609	1,744,554	1,694,334
Arkansas	1,272,178	1,274,999	1,262,151
California	12,900,366	13,338,831	13,304,359
Colorado	1,561,689	1,535,449	1,547,261
Connecticut	1,397,428	1,386,722	1,348,658
Delaware	347,242	349,255	346,981
Dist. of Col.	186,686	182,674	174,175
Florida	6,040,283	6,138,092	6,166,807
Georgia	3,539,768	3,573,874	3,571,616
Hawaii	376,090	392,495	388,769
Idaho	478,952	489,747	496,127
Illinois	4,971,834	4,993,663	5,253,312
Indiana	2,760,066	2,675,098	2,696,418
Iowa	1,395,039	1,409,951	1,376,530
Kansas	1,326,752	1,294,231	1,249,019
Kentucky	1,889,808	1,861,889	1,850,870
Louisiana	2,064,779	2,043,286	1,897,677
Maine	658,179	627,639	611,394
Maryland	2,099,811	2,157,848	2,091,205
Massachusetts	2,542,571	2,520,043	2,432,912
Michigan	4,389,647	4,376,926	4,371,053
Minnesota	2,092,710	2,102,362	2,077,581
Mississippi	1,264,910	1,258,286	1,265,062
Missouri	2,780,023	2,758,383	2,752,483
Montana	448,745	444,019	447,363
Nebraska	801,447	801,115	795,515
Nevada	605,424	633,267	651,818
New Hampshire	527,610	527,053	510,137
New Jersey	3,491,849	3,531,163	3,527,419
New Mexico	828,818	820,566	811,429
New York	5,698,886	5,769,796	5,996,576
North Carolina	3,387,273	3,369,498	3,337,499
North Dakota	365,846	361,259	352,200
Ohio	5,013,407	5,024,784	4,795,925
Oklahoma	1,685,946	1,678,029	1,712,492
Oregon	1,364,831	1,366,267	1,366,546
Pennsylvania	4,766,668	4,710,022	4,722,253
Rhode Island	401,304	384,987	380,238
South Carolina	1,595,246	1,829,113	1,866,536
South Dakota	396,289	398,125	393,896
Tennessee	2,541,699	2,632,750	2,494,386
Texas	8,890,051	8,749,439	8,859,462
Utah	779,897	751,078	724,524
Vermont	291,291	283,993	290,641
Virginia	3,022,281	3,042,734	3,026,255
Washington	2,158,790	2,316,135	2,311,131
West Virginia	840,609	836,891	848,683
Wisconsin	2,117,182	2,122,168	2,122,743
Wyoming	318,867	325,962	307,602
TOTAL	114,703,950	115,557,638	115,274,600

See notes and sources at end of table

Motor Gasoline Consumption in the United States(a)
(Thousands of Gallons)

(a) This table shows gross gallons of gasoline reported by wholesale distributors in each state.
The data are taken from state taxation reports and represent highway use, non-highway use and losses.
(b) Prior to 1962 data not available on a comparable basis.
NA=Not Available

SOURCE: American Petroleum Institue, Gasoline Consumption in the United States.
Federal Highway Administration, "Monthly Motor Fuel Reported by States"
Federal Highway Administration, Highway Statistics (Annual) Table MF-33GA.

Section VII
Table 9

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,326	4,346
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883
Kansas	2,881	4,094	3,185	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,426	6,434
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,086
Massachuset	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656
New Hampsh	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779
N. Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,406
N. Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	24,221
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,939	10,981	10,862	10,132	9,380
Pennsylvania	19,916	22,198	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250
S. Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266
S. Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,256	4,655
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915
W. Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,099	17,149	20,136
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697
TOTAL	298,014	341,973	329,196	395,306	448,908	479,210	488,844	526,245	581,127	615,775	617,275	653,559

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Alabama	4,891	5,370	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510
Alaska	2,618	2,616	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082
Arizona	2,100	2,774	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898
Arkansas	2,175	2,052	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474
California	26,357	26,697	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188
Colorado	3,099	4,225	4,441	4,148	4,581	4,074	4,002	4,670	4,811	5,574	5,490	5,211
Connecticut	22,176	23,230	23,199	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147
Delaware	2,487	2,723	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,097	4,309
Dist. of Col.	2,719	2,914	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934
Florida	8,190	8,971	9,369	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,698
Georgia	4,731	5,117	5,269	6,218	6,969	6,977	8,666	10,059	11,558	12,013	12,540	12,784
Hawaii	–	876	1,666	1,641	1,375	1,769	1,613	1,369	1,190	1,381	1,573	1,695
Idaho	3,734	4,055	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597
Illinois	43,008	42,490	42,255	41,361	41,421	41,580	41,702	39,831	39,946	42,795	44,498	44,517
Indiana	24,500	25,596	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363
Iowa	11,360	11,141	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,681
Kansas	5,060	4,751	5,187	5,242	5,612	5,487	5,405	6,310	6,009	6,660	6,488	7,559
Kentucky	5,800	4,833	4,426	5,822	5,532	5,697	5,659	7,068	6,901	7,304	7,865	8,209
Louisiana	11,249	10,694	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,796
Maine	7,108	7,456	8,307	8,645	9,487	8,792	9,424	9,038	10,110	10,647	11,417	11,837
Maryland	12,495	13,101	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860
Massachuset	47,781	51,022	52266	53,448	51,664	49,966	56,694	51,262	54,943	56,315	58,399	59,211
Michigan	28,387	30,464	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,601	37,473	38,108
Minnesota	15,079	16,241	15,967	16,776	16,629	16,739	19,227	21,195	20,083	22,233	22,121	22,390
Mississippi	2,318	2,364	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987
Missouri	12,700	12,830	12,858	13,412	13,939	13,884	14,077	13,908	13,924	17,067	16,473	16,218
Montana	4,474	4,877	5,248	5,522	5,400	5,684	5,041	5,802	3,459	4,119	4,669	4,823
Nebraska	3,929	4,183	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459
Nevada	2,051	2,428	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832
New Hampsh	4,049	4,484	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676
New Jersey	45,634	45,542	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447
New Mexico	2,302	3,065	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,183	4,547	5,405
New York	79,499	81,677	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122
N. Carolina	11,544	13,353	13,366	15,617	16,000	16,249	17,428	20,869	20,577	19,944	20,407	22,553
N. Dakota	3,632	3,775	3,693	4,472	4,584	4,529	5,252	6,008	6,036	6,156	5,959	4,973
Ohio	24,850	23,836	23,433	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435
Oklahoma	2,603	2,631	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573
Oregon	10,456	10,920	11,061	11,777	12,828	13,855	13,295	13,837	13,083	13,298	13,646	12,895
Pennsylvania	44,029	45,668	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544
Rhode Island	7,167	8,093	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623
S. Carolina	4,454	5,203	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469
S. Dakota	2,882	2,964	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372
Tennessee	5,037	5,268	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945
Texas	26,541	24,315	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398
Utah	3,478	3,841	3,085	3,607	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104
Vermont	2,399	2,939	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732
Virginia	12,984	14,184	14,631	15,843	16,945	16,542	18,941	21,304	21,796	22,286	23,218	24,624
Washington	16,867	18,045	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188
W. Virginia	2,154	2,462	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913
Wisconsin	20,316	21,711	22,153	23,399	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827
Wyoming	3,539	3,258	3,250	3,838	3,815	3,653	3,743	3,038	4,023	5,153	5,249	5,055
TOTAL	658,992	683,325	690,874	729,095	748,124	747,551	786,891	809,713	829,200	873,100	900,300	927,250

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alabama	8,849	12,093	13,988	14,761	14,488	18,032	19,624	20,194	15,996	19,419	17,939	15,436
Alaska	6,352	6,207	6,384	6,591	6,946	9,517	10,187	10,571	5,808	6,781	6,548	6,335
Arizona	5,242	8,786	15,118	11,197	11,481	10,181	13,727	13,829	13,194	11,330	9,741	8,102
Arkansas	5,489	9,412	9,949	10,316	9,392	10,228	12,451	13,014	16,163	14,209	13,116	13,336
California	47,357	45,797	51,165	42,991	43,129	45,545	54,009	60,126	68,104	61,338	67,494	67,337
Colorado	6,242	6,784	7,737	8,712	8,590	9,408	9,668	10,023	10,451	9,665	8,634	9,132
Connecticut	24,100	24,735	25,181	22,677	21,844	23,706	23,249	23,011	27,916	22,499	19,745	20,509
Delaware	4,345	4,298	4,382	4,310	4,487	4,615	5,096	4,840	3,685	3,702	3,133	2,753
Dist. of Col.	3,834	3,314	3,462	3,497	3,112	3,781	4,005	6,204	4,364	3,436	2,125	2,215
Florida	16,525	19,488	22,662	22,599	23,083	24,268	28,236	28,920	26,084	28,520	29,816	22,503
Georgia	14,638	16,491	20,478	20,835	16,922	22,480	22,559	19,641	18,692	19,397	19,388	18,387
Hawaii	1,706	1,622	1,839	1,897	2,512	2,370	3,502	3,246	6,451	5,915	6,043	4,570
Idaho	5,702	5,866	6,297	6,876	7,378	7,346	7,983	8,362	6,504	4,879	4,775	4,496
Illinois	49,467	55,276	54,288	53,950	52,103	58,877	58,459	61,760	48,584	36,086	34,427	32,521
Indiana	30,670	34,233	34,353	34,516	33,314	36,193	38,044	39,278	35,653	30,488	28,961	28,913
Iowa	14,242	14,975	15,467	14,751	14,249	15,257	16,012	16,687	20,595	15,793	14,374	16,212
Kansas	8,401	9,166	10,330	11,080	11,328	11,986	12,484	14,317	18,960	13,923	13,239	13,817
Kentucky	7,776	9,470	10,457	10,176	10,760	13,566	16,845	18,809	20,608	22,598	18,217	17,507
Louisiana	13,384	17,644	24,677	24,766	22,139	23,324	32,251	33,185	37,224	32,804	37,964	30,858
Maine	12,120	12,744	12,147	11,659	11,331	13,407	14,476	13,373	11,218	10,627	9,266	9,189
Maryland	20,000	21,435	22,591	22,094	21,712	20,571	21,748	21,341	23,971	22,417	18,365	16,198
Massachuset	61,609	63,616	62,970	58,934	57,195	61,666	59,564	57,446	42,347	37,413	32,155	32,263
Michigan	41,684	48,660	47,146	44,204	41,747	43,826	44,835	45,461	30,892	27,841	26,657	22,819
Minnesota	23,777	25,979	26,768	24,185	23,974	27,513	26,645	27,807	26,069	21,826	18,714	20,880
Mississippi	7,215	9,413	13,045	14,372	12,188	13,713	14,584	16,306	12,277	12,905	13,487	11,849
Missouri	16,350	18,101	18,781	17,424	17,106	19,555	20,588	23,027	22,780	18,150	18,003	20,738
Montana	5,709	6,121	6,924	7,646	7,459	8,383	8,141	8,114	7,774	6,626	6,486	5,814
Nebraska	7,604	9,002	9,262	8,684	8,363	10,178	10,643	12,127	12,601	9,145	8,233	9,176
Nevada	3,151	2,924	3,304	2,561	2,535	2,715	3,055	3,822	3,189	4,022	3,488	3,518
New Hampsh	8,085	8,303	8,208	7,551	7,047	8,758	8,231	8,292	5,741	5,845	5,313	5,084
New Jersey	64,769	72,659	74,564	67,426	58,937	61,787	60,052	56,592	50,447	52,719	50,973	45,546
New Mexico	5,395	6,569	7,948	7,635	8,080	8,022	9,337	9,633	10,431	10,222	12,526	7,954
New York	113,833	122,075	120,200	108,677	104,646	115,237	114,446	114,344	88,449	72,515	64,263	62,608
N. Carolina	21,609	23,030	24,898	22,246	20,965	23,681	27,107	24,749	29,404	23,820	21,228	20,184
N. Dakota	4,915	5,135	4,626	4,303	4,362	4,061	4,069	4,194	8,268	8,037	7,708	7,209
Ohio	35,090	41,414	41,415	40,831	42,160	51,519	52,501	55,346	44,952	48,397	44,959	40,250
Oklahoma	5,473	7,828	8,814	8,744	9,696	11,775	12,775	14,477	14,119	12,051	15,519	14,557
Oregon	14,162	15,467	16,070	14,324	13,240	14,062	16,794	16,671	19,281	17,051	16,462	15,020
Pennsylvania	63,221	70,757	70,793	71,508	66,341	74,691	77,861	73,311	76,651	68,066	59,977	53,065
Rhode Island	9,070	9,176	8,633	8,038	7,787	8,478	8,199	7,679	7,042	5,046	3,993	3,984
S. Carolina	9,114	9,722	10,956	9,638	8,132	10,218	12,972	11,023	11,894	10,730	9,841	9,462
S. Dakota	4,600	4,469	4,140	3,586	3,821	3,311	3,042	3,670	6,166	4,842	4,406	5,131
Tennessee	11,609	14,218	15,310	15,815	17,657	21,469	24,071	26,825	23,504	18,818	19,512	18,764
Texas	34,884	46,515	57,567	58,766	55,262	58,655	74,678	81,171	96,359	95,939	90,359	90,180
Utah	6,515	6,310	7,792	8,624	8,962	8,367	8,631	9,023	8,150	7,412	7,115	6,425
Vermont	5,472	5,729	6,001	4,981	4,566	5,394	5,274	5,135	5,389	4,076	3,828	2,707
Virginia	24,441	25,020	26,561	24,938	24,534	25,339	28,332	27,161	33,726	24,406	23,638	21,943
Washington	18,621	19,090	20,091	16,345	16,606	18,405	19,800	20,765	21,776	18,709	17,695	18,200
W. Virginia	4,658	5,532	5,922	5,622	6,478	6,807	9,019	8,796	10,904	10,340	9,450	7,659
Wisconsin	26,520	26,781	27,264	26,330	26,035	30,366	31,107	32,940	31,504	22,539	20,726	20,537
Wyoming	5,724	5,419	6,138	6,897	7,565	8,120	9,211	10,423	10,063	11,375	12,452	11,015
TOTAL	971,320	1,074,870	1,135,063	1,081,086	1,043,746	1,150,929	1,230,179	1,257,061	1,214,374	1,086,709	1,032,476	974,864

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

STATE	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	15,457	16,243	16,402	16,596	18,885	20,420	24,740	25,460
Alaska	7,066	7,840	10,163	7,994	8,198	8,986	11,070	11,493
Arizona	8,792	9,885	10,049	11,147	10,405	10,381	11,307	11,903
Arkansas	13,389	14,230	15,076	13,536	13,703	14,313	14,640	14,317
California	68,413	76,288	72,468	74,955	74,040	84,983	81,976	82,307
Colorado	10,915	11,344	9,621	10,140	9,876	11,203	10,255	10,344
Connecticut	16,933	18,544	18,937	20,501	21,082	22,801	25,553	20,352
Delaware	3,376	3,556	3,398	3,281	4,047	3,827	4,279	3,201
Dist. of Col.	2,769	3,054	2,476	2,835	2,668	3,410	3,340	2,501
Florida	27,765	29,210	30,320	31,953	32,960	34,714	34,805	34,556
Georgia	21,917	23,865	23,676	24,528	26,007	27,898	28,186	28,475
Hawaii	2,327	2,766	4,631	4,676	4,289	6,089	6,056	6,846
Idaho	5,263	5,898	5,596	5,914	6,390	6,505	6,860	7,154
Illinois	35,503	37,485	32,649	35,073	34,387	33,807	34,691	42,351
Indiana	27,720	31,123	30,734	31,758	31,747	28,813	33,440	32,656
Iowa	14,086	15,314	15,461	15,898	15,750	16,024	14,961	15,160
Kansas	13,921	15,068	14,954	14,201	16,644	16,576	15,768	16,517
Kentucky	20,442	22,061	21,722	20,311	20,547	24,693	28,308	23,471
Louisiana	31,105	31,448	33,660	35,006	36,727	39,070	37,231	39,164
Maine	7,325	8,339	9,580	11,470	11,965	13,674	12,291	11,960
Maryland	18,381	18,704	17,849	17,747	18,021	18,087	20,837	17,058
Massachuset	31,364	32,693	32,511	34,707	36,951	35,748	39,299	33,997
Michigan	22,525	24,282	25,625	26,691	25,615	27,940	25,311	23,544
Minnesota	17,413	18,142	19,463	18,956	18,326	19,975	19,262	18,450
Mississippi	13,306	14,118	15,923	14,842	16,732	19,062	17,144	16,131
Missouri	16,762	18,543	19,532	18,358	19,344	21,145	22,135	20,698
Montana	8,883	9,366	11,334	6,999	6,548	6,268	7,678	7,386
Nebraska	11,580	12,007	12,356	12,004	12,324	13,942	12,474	12,442
Nevada	5,304	5,561	5,431	5,575	6,506	6,780	7,444	7,339
New Hampsh	4,520	4,762	5,246	5,765	7,539	6,770	7,575	6,311
New Jersey	38,917	40,323	40,122	45,606	43,194	45,245	44,211	34,371
New Mexico	6,705	7,103	8,513	9,704	10,632	10,184	9,078	9,176
New York	56,525	58,478	61,513	70,851	72,661	75,232	75,676	65,985
N. Carolina	24,626	26,155	24,853	27,585	28,376	31,519	27,030	25,004
N. Dakota	6,867	7,405	7,495	7,394	6,810	6,776	7,039	6,743
Ohio	33,180	35,888	36,069	35,814	33,555	36,999	38,230	36,727
Oklahoma	16,635	17,931	18,341	13,836	13,897	14,858	14,720	15,359
Oregon	16,094	15,728	15,429	14,889	16,207	16,479	16,303	16,962
Pennsylvania	51,763	54,048	53,052	53,529	57,419	58,510	61,359	53,860
Rhode Island	4,736	4,905	4,457	5,308	6,045	5,944	5,913	4,684
S. Carolina	10,592	11,520	11,814	11,716	11,913	12,616	12,527	14,574
S. Dakota	4,464	4,876	4,989	6,044	5,895	6,208	5,425	5,487
Tennessee	21,519	23,895	22,309	22,414	22,464	23,281	23,051	23,838
Texas	95,849	96,771	95,235	86,265	88,658	86,572	87,078	82,235
Utah	6,459	6,997	5,951	7,428	6,792	7,328	6,195	7,324
Vermont	3,457	3,709	4,182	3,943	4,355	4,639	4,614	4,036
Virginia	25,087	25,948	25,263	28,435	29,361	32,658	29,287	28,316
Washington	16,382	18,167	20,408	23,288	21,243	21,097	21,015	21,764
W. Virginia	9,930	10,424	9,779	7,583	8,912	8,860	10,215	9,720
Wisconsin	20,399	21,867	22,516	21,825	21,033	24,175	24,516	23,210
Wyoming	7,219	7,321	7,697	6,864	8,767	9,427	9,826	9,586
TOTAL	981,926	1,041,217	1,046,827	1,063,740	1,086,413	1,142,510	1,152,225	1,102,503

See notes and sources at end of table

United States Sales of Distillate Fuel Oils by State
(Thousands of Barrels)

SOURCE: 1947-1975: U.S.Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual
1976-1990: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Petroleum Supply Annuals
Petroleum Marketing Monthly and Annual.

United States Deliveries of Distillate Fuel Oil by Uses
(Thousands of Barrels)

Year	Heating Oils	Industrial Use(d)	Oil Company Fuel	Electric Utility Company(c)	Railroads	Vessel Bunkering	Military Use(e)	Diesel	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	34,980	12,087	488,844
1954	320,117	41,589	7,699	6,070	77,389	15,563	8,752	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	48,870	9,908	615,775
1957	377,044	43,532	10,419	5,296	88,315	20,420	12,737	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	65,186	9,054	653,559
1959 (a)	415,521	33,380	8,642	5,005	87,802	19,250	11,394	70,527	7,471	658,992
1960 (b)	438,010	34,271	8,347	4,742	86,490	18,730	10,793	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,803	15,836	13,041	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,612	89,104	16,642	16,303	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	(g)	147,831	829,200
1968	510,682	45,795	9,975	8,509	84,030	18,235	12,593	171,773	11,508	873,100
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	276,961	11,876	1,135,063
1974	493,223	64,036	13,805	84,661	102,949	24,757	17,748	269,776	10,131	1,081,086
1975	488,388	63,993	13,633	63,420	93,191	26,138	18,004	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	360,799	14,059	1,257,061
1979	454,955	99,583	22,043	46,579	103,493	41,725	18,570	392,614	34,812	1,214,374
1980	393,112	86,089	24,205	31,812	102,022	35,201	19,138	375,136	19,994	1,086,709
1981	345,728	80,216	29,185	18,192	100,482	41,025	17,763	378,853	21,032	1,032,476
1982	324,912	71,340	29,482	12,134	93,150	33,885	15,201	375,124	19,639	974,864
1983	339,455	54,030	21,510	11,744	76,230	39,108	15,804	408,594	15,451	981,926
1984	352,127	56,114	21,623	16,405	82,308	40,287	16,579	439,786	15,988	1,041,217
1985	358,058	61,730	20,869	12,246	76,422	45,102	18,290	449,912	4,198	1,046,827
1986	356,380	63,907	17,857	14,628	73,800	48,434	18,105	467,280	3,349	1,063,740
1987	355,899	69,467	20,994	15,383	74,944	52,935	21,057	473,930	1,805	1,086,413
1988	362,329	62,325	20,765	19,050	77,601	55,009	23,354	520,489	1,590	1,142,510
1989	346,590	61,078	20,124	25,688	77,720	56,106	22,103	542,124	693	1,152,225

See notes and sources at end of table

United States Deliveries of Distillate Fuel Oil by Uses
(Thousands of Barrels)

Year	Heating Oils	Industrial Use(d)	Oil Company Fuel	Electric Utility Company(c)	Railroads	Vessel Bunkering	Military Use(e)	Diesel	All Other	Total
1990	305,226	58,389	23,066	17,469	76,431	52,310	18,676	550,877	61	1,102,503

(a) Includes Alaska
(b) Includes Alaska and Hawaii
(c) Includes gas turbine plants in 1968 and subsequent years. Includes kerosine-type jet fuel: 1976- 11,600 bbls per day. 1977- 18,700 bbls. per day; 1978- 12,343 bbls per day.
(d) Excludes oil company use
(e) Includes imports by military
(f) Beginning in 1979, heating oil is no longer a separate category. The figure is derived by adding residential, commercial and farming.
(g) Included under all other

SOURCE: 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual
1975-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1988: U.S. Energy Information Administration, Petroleum Marketing Monthly and Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales.

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	574
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34
Arkansas	2,253	2,080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,343	28,909	32,236	34,910	36,228	37,470	33,310
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824
Hawaii	--	--	--	--	--	--	--	--	--	--	--	--	--
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,039	46,154	44,587	45,136	36,841	41,422
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,260	18,530	9,721	11,028
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11,127	10,350
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,985	4,291	4,389	4,383	4,660	4,886
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162
West Virginia	828	1,171	1,366	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167
Wyoming	3,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842
U.S. Total	520,529	506,497	494,933	554,208	563,388	556,273	564,729	520,714	556,983	561,538	543,950	531,367	554,352

See notes and sources at end of table

Section VII
Table 11a

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,202	3,555	2,749	3,184	2,274	2,459	1,652	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	695	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	95	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	474	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	78,774	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	1,790	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,450	14,549	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	6,001	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	2,387	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	11,042	11,148	10,748	10,656
Florida	28,978	32,600	37,044	36,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	6,413	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	5,613	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	201	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,893	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	12,885	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,021	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	2,249	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	321	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,599	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	5,742	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	16,490	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	38,942	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	11,242	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	6,363	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	339	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	3,026	2,638	2,131	2,335	2,400	3,252	2,623	3,317	3,379	3,640	3,615	2,904	2,552
Montana	2,022	2,533	3,049	2,836	2,356	1,195	1,371	1,189	1,495	1,524	1,249	1,236	1,485
Nebraska	378	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	202	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,324	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,791	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	173	311	323	209	146	655	363	111	90	95	215	466	621
New York	76,586	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,537	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	663	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	11,382	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	1,396	873	967	797	825	795	637	776	866	683	744	637	1,355
Oregon	5,453	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	42,731	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	51,489	60,389	59,973	58,490
Rhode Island	9,502	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	4,634	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	60	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	184	171	105	275	287	276	331	465	334	786	596	365	523
Texas	22,102	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,562	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	498	540	629	607	413	937	1,048	504	547	677	903	898	954
Virginia	17,448	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	9,179	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,451	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,275	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	1,738	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S. Total	550,536	542,986	548,433	538,522	556,632	574,118	613,972	639,539	669,484	722,529	804,287	838,044	925,647

See notes and sources at end of table

Section VII
Table 11b

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	6,151	10,496	13,220	14,684	16,272	16,443	11,294	8,820	4,686	6,350	3,764	4,150	3,773
Alaska	1,051	1,098	1,104	1,342	1,738	2,595	321	397	249	301	60	67	896
Arizona	4,288	6,943	5,182	4,108	7,478	3,413	5,032	1,046	227	297	616	562	10
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747	11,813	5,472	2,449	1,803	775	1,045	2,545
California	121,059	105,314	113,782	136,060	180,436	140,595	160,428	162,365	126,463	81,392	62,534	67,319	59,892
Colorado	2,317	3,177	3,591	3,903	3,502	4,091	1,041	1,373	165	14	342	324	214
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325	27,241	28,209	21,951	21,349	35,676	32,541	23,414
Delaware	13,117	12,632	10,239	11,332	11,524	11,376	11,073	12,889	8,671	6,289	3,627	3,290	1,342
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235	767	444	389	1,527	918	857	509
Florida	82,873	75,440	78,885	92,171	85,323	91,175	98,722	96,955	90,347	63,079	35,937	32,561	32,515
Georgia	13,888	13,454	9,831	12,257	12,666	11,988	13,368	8,512	6,251	5,562	5,013	4,489	8,859
Hawaii	11,580	11,219	10,776	11,778	12,512	12,796	12,641	13,251	13,311	13,323	14,649	13,623	13,728
Idaho	243	597	703	803	697	1,003	580	460	55	223	113	107	414
Illinois	28,795	28,521	26,948	23,659	26,598	30,111	26,675	28,023	21,399	15,507	8,686	7,505	4,899
Indiana	15,536	16,078	14,052	19,188	19,447	19,004	16,271	14,335	7,638	4,856	3,262	2,862	4,712
Iowa	679	628	405	588	764	599	836	360	100	321	208	180	225
Kansas	2,847	2,660	5,945	6,416	6,307	6,686	4,830	1,046	697	993	1,832	1,580	95
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506	1,151	966	1,150	1,197	1,275	1,094	779
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252	63,359	72,686	55,687	48,260	44,187	49,625	45,953
Maine	19,860	15,272	10,064	13,116	12,234	11,415	10,738	8,413	10,090	15,803	5,742	5,183	3,687
Maryland	42,534	39,310	25,538	27,330	26,122	28,217	23,851	16,090	12,396	11,898	11,958	10,795	6,562
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208	58,958	52,948	49,673	42,762	24,722	22,463	30,046
Michigan	14,560	14,876	18,739	20,656	21,345	24,871	18,547	11,934	8,947	4,285	3,823	3,290	3,298
Minnesota	7,069	5,883	4,322	5,796	4,414	4,576	2,695	3,044	1,460	1,732	1,688	1,487	1,225
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308	24,740	17,459	9,725	5,570	2,381	2,375	1,466
Missouri	2,959	2,375	2,992	2,948	3,647	3,620	3,196	1,370	656	856	580	500	920
Montana	1,705	2,290	2,186	2,549	2,414	2,665	4,188	3,012	2,519	1,668	1,418	1,349	640
Nebraska	639	1,045	1,077	1,650	1,189	1,410	622	78	57	198	113	97	77
Nevada	612	690	1,456	649	1,455	2,756	1,541	2,503	250	119	90	80	39
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408	6,109	5,437	4,835	4,106	1,680	1,519	804
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726	60,980	53,167	38,279	34,241	52,464	47,312	37,754
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081	596	1,305	856	716	3,576	4,823	2,755
New York	169,669	155,327	146,837	157,812	157,773	153,037	130,344	112,872	97,868	90,073	73,436	66,754	50,662
North Carolina	15,393	13,819	7,786	12,667	14,499	12,814	11,889	9,114	5,677	5,971	6,297	5,680	4,537
North Dakota	898	1,190	1,101	1,045	889	950	801	701	1,130	1,171	1,645	1,410	635
Ohio	6,866	8,330	9,957	11,041	14,491	13,431	9,674	6,282	5,920	2,488	4,346	3,742	2,740
Oklahoma	1,629	1,201	752	683	661	987	820	719	745	700	559	479	264
Oregon	7,439	6,650	4,484	3,606	3,395	5,087	5,526	4,562	6,407	10,927	4,607	4,893	4,352
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366	45,365	34,777	30,340	20,789	21,706	19,687	13,153
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088	2,387	2,230	2,227	1,791	1,060	958	1,222
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579	11,249	7,127	5,142	2,965	4,260	3,818	2,275
South Dakota	234	137	153	299	260	213	166	115	161	51	147	126	44
Tennessee	650	883	734	3,085	3,404	2,529	2,276	1,472	1,239	748	1,131	969	675
Texas	29,208	36,891	41,072	44,195	52,178	63,634	73,206	73,189	68,671	62,069	45,725	49,104	43,173
Utah	3,649	4,295	4,698	4,917	4,565	4,441	2,374	2,584	1,064	886	1,736	1,660	1,951
Vermont	876	535	818	1,285	1,136	1,073	337	471	351	372	345	312	88
Virginia	46,123	43,274	40,015	40,108	41,171	37,371	34,020	24,704	13,072	9,591	10,068	9,109	8,206
Washington	10,986	10,365	8,627	7,675	9,683	12,647	13,893	17,332	16,505	14,029	5,358	5,153	8,643
West Virginia	1,448	1,709	1,847	4,146	4,039	3,082	1,982	1,465	1,001	1,443	1,190	1,074	702
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613	1,915	1,751	871	2,212	876	834	456
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090	2,182	1,630	2,009	1,634	401	380	1,016
U.S. Total	1,030,177	963,216	898,572	1,025,148	1,120,927	1,103,233	1,034,610	937,466	762,028	626,510	518,604	501,199	438,840

See notes and sources at end of table

United States Sales of Residual Fuel Oils (All Uses) by State (Thousands of Barrels)

State	1986	1987	1988	1989	1990
Alabama	9,243	10,910	13,103	14,006	3,645
Alaska	5,125	1,363	258	103	238
Arizona	29	15	39	88	80
Arkansas	6,437	2,690	1,905	3,406	214
California	62,987	60,082	64,677	55,789	69,212
Colorado	1,040	211	25	154	12
Connecticut	14,272	20,900	19,526	19,385	15,053
Delaware	2,195	3,818	4,706	5,357	3,945
Dist. of Col.	780	582	176	109	207
Florida	48,576	36,668	48,680	49,620	56,616
Georgia	2,229	2,199	2,244	1,434	3,139
Hawaii	13,307	12,587	15,456	20,127	18,144
Idaho	85	390	254	343	60
Illinois	7,358	7,106	6,318	5,006	3,306
Indiana	5,201	3,782	3,389	4,241	3,580
Iowa	614	126	279	241	116
Kansas	571	345	768	415	255
Kentucky	893	897	616	623	502
Louisiana	37,339	43,913	45,370	43,414	21,616
Maine	9,481	7,451	9,746	8,434	10,301
Maryland	6,465	7,919	8,489	12,755	10,163
Massachusetts	47,932	38,772	34,806	30,600	30,071
Michigan	4,214	3,002	4,591	4,663	2,760
Minnesota	2,170	1,271	1,378	1,398	897
Mississippi	12,820	2,613	8,178	17,210	3,458
Missouri	879	950	1,026	1,031	818
Montana	201	140	998	1,372	203
Nebraska	241	337	468	474	239
Nevada	442	376	965	672	261
New Hampshire	5,428	4,481	5,950	5,657	5,303
New Jersey	36,911	20,639	24,863	22,138	17,508
New Mexico	1,638	589	664	2,077	132
New York	66,353	68,697	82,223	75,935	80,238
North Carolina	4,180	4,484	4,604	2,744	5,461
North Dakota	468	381	382	396	312
Ohio	2,779	2,162	3,081	2,872	1,593
Oklahoma	466	348	712	506	601
Oregon	5,724	4,348	4,794	4,901	4,144
Pennsylvania	19,039	18,179	17,636	16,685	18,138
Rhode Island	2,515	1,917	1,927	1,046	1,263
South Carolina	1,753	1,676	2,438	1,498	2,251
South Dakota	71	57	81	87	56
Tennessee	702	337	483	609	286
Texas	37,177	36,300	32,178	32,973	25,651
Utah	1,494	2,185	1,302	1,904	399
Vermont	298	240	176	92	221
Virginia	8,309	9,490	7,613	9,006	8,390
Washington	16,489	11,229	11,915	14,403	15,200
West Virginia	750	382	467	477	1,186
Wisconsin	1,245	1,242	1,187	1,356	1,037
Wyoming	803	726	1,163	232	37
U.S. Total	517,717	461,504	504,275	500,067	448,521

See notes and sources at end of table

United States Sales of Residual Fuel Oils (All Uses) by State
(Thousands of Barrels)

SOURCE: 1947-1972: U.S. Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual.
1973-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1984: U.S. Energy Information Administration, Petroleum Marketing Monthly, July 1985.
1985-1988: U.S. Energy Information Administration, Petroleum Marketing Monthly and Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales.

United States Sales of Residual Fuel Oil by Uses
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(c)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(e)	Military Use(d)	All Other	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959(a)	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960(b)	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	73,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	838,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233
1979	190,543	486,636	245	51,062	198,759	82,729	7,736	16,900	1,034,610
1980	213,131	390,105	665	59,519	163,564	98,034	8,066	4,382	937,466
1981	188,632	325,486	178	51,870	117,024	67,035	7,008	4,795	762,030
1982	152,586	227,419	170	45,319	122,619	65,781	7,829	4,784	626,510
1983	136,290	204,238	47	28,604	93,624	35.979	5,411	14,412	518,604
1984	135,408	186,318	43	27,680	94,375	33,777	5,291	18,307	501,199
1985	130,323	147,238	148	18.477	95,509	31,592	4,593	10,962	438,840
1986	125,889	215,276	14	18,239	106,962	39,595	4,308	7,434	517,717
1987	125,221	181,712	7	11,967	90,723	42,013	4,549	5,314	461,504

See notes and sources at end of table

United States Sales of Residual Fuel Oil by Uses
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants(c)	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils(e)	Military Use(d)	All Other	All Uses
1988	124,976	227,164	1	10,317	91,787	42,589	3,269	4,173	504,275
1989	128,816	233,285	4	9,600	88,397	36,596	2,506	864	500,068
1990	148,764	200,797	0	7,485	53,044	35,793	1,952	686	448,521

(a) Includes Alaska
(b) Includes Hawaii
(c) Beginning in 1967, represented use by electric public-utility plants only.
(d) Includes imports by military.
(e) Beginning in 1979, heating oil has been reclassified commercial and is a part of the total called "heating and industrial."
(f) Included in All Other

SOURCE 1947-1975: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals
1976-1978: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports.
1979-1982: U.S. Energy Information Administration, Petroleum Supply Annuals.
1983-1987: U.S. Energy Information Administration, Petroleum Marketing Monthly, July issues.
1988: U.S. Energy Information Administration, Petroleum Marketing Annual.
1989-1990: U.S. Energy Information Administration, Fuel Oil and Kerosene Sales, Annuals.

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1965(a)	226	44	270	8,338	--	270	2	268
1966	245	35	280	7,235	-3	283	4	279
1967	300	15	315	9,037	5	310	5	305
1968	332	19	351	8,904	--	351	5	346
1969	287	14	301	8,556	-1	302	5	297
1970	230	20	250	6,621	-5	255	6	249
1971	234	30	264	6,990	1	263	3	260
1972	209	33	242	6,147	-2	244	2	242
1973	181	36	217	5,599	-2	219	2	217
1974	195	27	222	5,529	--	222	--	222
1975	180	28	208	5,222	-1	209	--	209
1976	187	15	202	6,495	3	199	--	199
1977	186	21	207	6,285	-1	208	--	208
1978	179	19	198	5,958	-1	199	--	199
1979	176	22	198	5,599	-1	200	--	200
1980	188	31	219	6,308	2	217	--	217
1981	193	7	200	7,054	2	199	1	198
1982	201	5	206	5,667	-4	210	1	209
1983	205	1	206	6,265	-1	208	1	207
1984	213	14	227	6,861	2	226	3	223
1985	206	9	215	6,654	-1	215	1	214
Jan.	185	19	204	6,415	-14	219	1	218
Feb.	195	9	204	6,183	-8	212	0	212
Mar.	189	17	206	6,767	19	187	0	187
Apr.	222	3	225	6,205	-19	244	0	244
May	230	6	236	6,428	7	228	0	228
Jun.	211	15	226	6,227	-7	232	0	232
Jul.	224	8	232	6,977	24	207	0	207
Aug.	209	3	212	6,982	--	213	2	211
Sep.	206	0	206	6,857	-4	210	2	208
Oct.	203	13	216	6,738	-4	220	3	217
Nov.	209	9	218	6,793	2	217	6	211
Dec.	189	2	191	6,654	-4	195	3	192
1986	196	9	205	7,072	1	203	1	202
Jan.	193	2	195	6,534	-4	200	0	200
Feb.	173	2	175	6,264	-10	184	1	183
Mar.	172	5	177	5,795	-15	192	1	191
Apr.	201	5	206	6,712	31	176	5	171
May	197	15	212	6,513	-6	218	0	218
Jun.	209	9	218	6,581	2	215	0	215
Jul.	203	16	219	6,099	-16	235	0	235
Aug.	197	8	205	6,609	16	189	1	188
Sep.	197	6	203	6,700	3	199	0	199
Oct.	202	7	209	6,764	2	207	0	207
Nov.	202	11	213	6,901	5	209	0	209
Dec.	203	21	224	7,072	6	219	10	209

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1987	204	3	207	7,956	2	205	1	204
Jan.	174	6	180	7,631	18	161	2	159
Feb.	194	3	197	7,141	-18	214	0	214
Mar.	187	6	193	7,031	-4	197	1	196
Apr.	202	3	205	7,183	5	199	0	199
May	216	2	218	8,078	29	189	0	189
Jun.	204	2	206	7,262	-27	233	0	233
Jul.	221	3	224	7,253	--	224	0	224
Aug.	208	3	211	6,981	-9	220	2	218
Sep.	204	2	206	6,506	-16	222	1	221
Oct.	219	4	223	7,097	19	203	0	203
Nov.	217	4	221	7,043	-2	223	2	221
Dec.	206	2	208	7,956	29	179	4	175
1988	205	3	209	6,051	-5	214	1	213
Jan.	185	3	188	7,572	-12	199	0	199
Feb.	178	3	181	6,086	-51	232	0	232
Mar.	211	2	213	6,639	18	195	0	195
Apr.	203	3	206	6,276	-12	218	0	218
May	229	4	233	6,853	19	214	3	211
Jun.	208	3	211	6,741	-4	215	0	215
Jul.	209	3	212	6,749	0	212	0	212
Aug.	206	3	209	6,893	5	205	1	204
Sep.	198	3	201	6,503	-13	214	7	207
Oct.	208	3	211	6,316	-6	216	2	214
Nov.	219	3	222	6,436	-4	218	0	218
Dec.	217	3	220	6,051	-12	233	3	230
1989	206	3	209	6,380	1	209	4	205
Jan.	191	3	194	6,626	19	175	1	174
Feb.	190	2	192	6,383	-9	201	1	200
Mar.	209	4	213	6,118	-8	221	10	211
Apr.	196	3	199	6,079	-1	200	0	200
May	218	10	228	6,176	4	224	0	224
Jun.	211	4	215	6,200	1	214	0	214
Jul.	216	3	219	6,625	14	204	1	203
Aug.	200	4	204	6,012	-20	224	0	224
Sep.	224	3	227	6,818	27	200	0	200
Oct.	204	3	207	6,316	-16	223	2	221
Nov.	209	2	211	6,829	17	194	12	182
Dec.	205	1	206	6,380	-15	221	17	204

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Naphtha Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1990	178	8	186	6,165	-1	186	4	182
Jan.	187	1	188	6,386	--	188	8	180
Feb.	199	1	200	6,337	-2	202	0	202
Mar.	201	2	203	7,048	23	179	13	166
Apr.	178	1	179	6,299	-25	204	8	196
May	198	2	200	6,853	18	181	0	181
Jun.	175	2	177	6,969	4	173	3	170
Jul.	126	2	128	6,349	-20	148	1	147
Aug.	174	2	176	5,716	-20	196	7	189
Sep.	210	10	220	6,088	12	207	2	205
Oct.	168	20	188	6,183	3	184	5	179
Nov.	161	34	195	5,791	-13	208	0	208
Dec.	159	16	175	6,165	12	163	0	163
1991	164	12	176	4,739	-4	180	4	176
Jan.	155	20	175	6,005	-5	181	--	181
Feb.	164	15	179	5,875	-5	183	2	181
Mar.	142	12	154	5,874	--	155	1	154
Apr.	151	13	164	5,720	-5	169	13	156
May	176	15	191	5,663	-2	192	1	191
Jun.	173	7	180	5,489	-6	186	--	186
Jul.	172	7	179	5,754	9	170	4	166
Aug.	170	14	184	5,276	-15	200	--	200
Sep.	173	7	180	5,096	-6	186	--	186
Oct.	162	8	170	4,865	-7	177	7	170
Nov.	156	11	167	4,261	-20	188	--	188
Dec.	173	14	187	4,739	15	172	18	154
1992(p)								
Jan.	152	8	160	4,836	3	156	0	156
Feb.	148	10	158	5,091	9	148	2	146
Mar.	132	9	141	4,911	-6	147	1	146
Apr.	153	4	157	4,961	2	155	6	149
May	176	8	184	5,618	21	163	19	144

(a) Data prior to 1965 are not available on a comparable basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1965-1975: U.S. Bureau of Mines, Annual Petroleum Statement
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1965(a)	298	37	335	10,361	--	335	1	334
1966	345	52	397	13,139	5	392	1	391
1967	448	74	522	13,174	3	519	1	518
1968	529	86	615	15,373	6	609	--	609
1969	594	111	705	19,517	11	694	--	694
1970	597	125	722	29,989	4	718	--	718
1971	601	150	751	20,747	-1	752	1	751
1972	638	162	800	19,346	-3	803	--	803
1973	679	176	855	22,945	10	845	3	842
1974	641	135	776	23,906	3	773	2	771
1975	691	105	796	25,158	3	793	2	791
1976	731	61	792	25,590	1	791	2	789
1977	788	53	841	28,263	8	833	2	831
1978	791	67	858	27,707	-1	859	1	858
1979	835	56	891	32,921	14	877	1	876
1980	811	49	860	35,723	8	852	1	851
1981	775	31	806	34,011	-5	810	1	809
1982	778	23	801	31,180	-8	809	5	804
1983	817	29	846	32,346	2	844	5	839
1984	919	48	967	35,118	8	960	7	953
Jan.	870	51	921	29,234	-100	1,021	10	1,011
Feb.	938	110	1,048	32,929	127	921	2	919
Mar.	893	38	931	33,917	32	899	1	898
Apr.	871	42	913	34,056	5	908	5	903
May	890	29	919	34,488	14	906	1	905
Jun.	916	36	952	36,089	53	898	6	892
Jul.	948	40	988	36,780	22	966	10	956
Aug.	973	77	1,050	38,526	56	994	2	992
Sep.	926	33	959	37,989	-18	978	1	977
Oct.	958	56	1,014	38,214	7	1,007	5	1,002
Nov.	920	22	942	38,401	6	935	11	924
Dec.	931	38	969	35,118	-106	1,075	24	1,051
1985	983	30	1,013	33,825	-4	1,017	12	1,005
Jan.	958	49	1,007	34,691	-14	1,021	3	1,018
Feb.	981	29	1,010	35,302	22	988	22	966
Mar.	1,003	30	1,033	36,865	50	982	6	976
Apr.	937	14	951	35,041	-61	1,012	5	1,007
May	915	24	939	35,924	28	911	5	906
Jun.	914	20	934	36,537	20	913	3	910
Jul.	954	43	997	36,037	-16	1,012	3	1,009
Aug.	966	9	975	34,681	-44	1,019	21	998
Sep.	989	34	1,023	35,187	17	1,006	4	1,002
Oct.	1,036	42	1,078	35,558	12	1,067	25	1,042
Nov.	1,090	32	1,122	36,408	28	1,094	28	1,066
Dec.	1,051	35	1,086	33,825	-83	1,170	18	1,152

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1986	1,097	48	1,145	42,677	24	1,121	16	1,105
Jan.	1,143	25	1,168	35,051	40	1,128	38	1,090
Feb.	1,175	33	1,208	37,829	99	1,108	15	1,093
Mar.	1,119	24	1,143	41,729	126	1,018	11	1,007
Apr.	963	39	1,002	38,831	-97	1,098	12	1,086
May	1,004	39	1,043	38,807	-1	1,044	14	1,030
Jun.	1,066	76	1,142	39,703	30	1,112	6	1,106
Jul.	1,084	106	1,190	42,481	90	1,101	10	1,091
Aug.	1,072	77	1,149	41,884	-19	1,168	4	1,164
Sep.	1,093	54	1,147	42,233	12	1,136	14	1,122
Oct.	1,112	31	1,143	43,853	52	1,091	25	1,066
Nov.	1,125	48	1,173	43,237	-21	1,193	22	1,171
Dec.	1,210	28	1,238	42,677	-18	1,256	20	1,236
1987	1,138	64	1,202	41,973	-2	1,204	23	1,181
Jan.	1,192	37	1,229	42,116	-18	1,247	45	1,202
Feb.	1,135	64	1,199	41,154	-34	1,233	20	1,213
Mar.	1,095	77	1,172	41,044	-4	1,176	7	1,169
Apr.	1,052	62	1,114	39,977	-36	1,150	4	1,146
May	1,035	65	1,100	39,277	-23	1,122	4	1,118
Jun.	1,048	64	1,112	38,677	-20	1,132	5	1,127
Jul.	1,126	70	1,196	39,479	26	1,169	4	1,165
Aug.	1,191	52	1,243	40,762	41	1,201	2	1,199
Sep.	1,190	81	1,271	43,684	97	1,173	34	1,139
Oct.	1,189	79	1,268	42,740	-30	1,299	35	1,264
Nov.	1,171	51	1,222	43,937	40	1,183	45	1,138
Dec.	1,233	65	1,298	41,973	-63	1,362	74	1,288
1988	1,164	87	1,251	37,723	-12	1,263	27	1,236
Jan.	1,231	82	1,313	37,976	-129	1,441	81	1,360
Feb.	1,205	68	1,273	36,738	-43	1,315	34	1,281
Mar.	1,242	95	1,337	39,527	90	1,247	52	1,195
Apr.	1,088	81	1,169	39,020	-17	1,186	13	1,173
May	1,059	108	1,167	39,210	6	1,161	4	1,157
Jun.	1,133	75	1,208	38,811	-13	1,221	15	1,206
Jul.	1,154	85	1,239	40,148	43	1,196	3	1,193
Aug.	1,138	100	1,238	39,746	-13	1,251	14	1,237
Sep.	1,177	59	1,236	40,060	10	1,225	9	1,216
Oct.	1,158	143	1,301	47,755	22	1,279	2	1,277
Nov.	1,118	76	1,194	39,668	-36	1,230	9	1,221
Dec.	1,259	72	1,331	37,723	-63	1,394	80	1,314

See notes and sources at end of table

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1989	1,197	103	1,300	34,471	-9	1,308	23	1,285
Jan.	1,312	98	1,410	37,787	2	1,408	74	1,334
Feb.	1,214	117	1,331	36,917	-31	1,362	20	1,342
Mar.	1,188	97	1,285	37,125	7	1,278	1	1,277
Apr.	1,074	125	1,199	38,101	33	1,166	16	1,150
May	1,031	110	1,141	39,243	37	1,104	1	1,103
Jun.	1,139	120	1,259	38,408	-28	1,287	1	1,286
Jul.	1,194	111	1,305	40,783	77	1,228	9	1,219
Aug.	1,237	86	1,323	42,271	48	1,275	15	1,260
Sep.	1,218	92	1,310	41,079	-40	1,350	34	1,316
Oct.	1,300	71	1,371	43,885	92	1,279	27	1,252
Nov.	1,305	89	1,394	44,398	18	1,376	39	1,337
Dec.	1,149	114	1,263	34,471	-320	1,583	42	1,541
1990	1,311	100	1,411	45,925	31	1,379	39	1,340
Jan.	1,340	161	1,501	36,820	76	1,426	22	1,404
Feb.	1,330	157	1,487	40,226	122	1,366	50	1,316
Mar.	1,256	118	1,374	42,364	69	1,306	17	1,289
Apr.	1,179	102	1,281	40,387	-66	1,346	11	1,335
May	1,194	117	1,311	40,074	-10	1,321	8	1,313
Jun.	1,214	123	1,337	40,357	9	1,327	7	1,320
Jul.	1,307	98	1,405	44,598	137	1,269	10	1,259
Aug.	1,250	81	1,331	42,686	-62	1,393	30	1,363
Sep.	1,339	72	1,411	43,761	36	1,374	45	1,329
Oct.	1,463	52	1,515	44,888	36	1,478	72	1,406
Nov.	1,445	59	1,504	44,705	-6	1,510	141	1,369
Dec.	1,411	66	1,477	45,925	39	1,438	60	1,378
1991	1,274	55	1,329	44,068	-5	1,335	39	1,296
Jan.	1,354	47	1,401	44,385	-50	1,451	73	1,378
Feb.	1,384	29	1,413	41,484	-104	1,517	157	1,360
Mar.	1,157	52	1,209	38,411	-99	1,309	39	1,270
Apr.	1,135	61	1,196	38,314	-3	1,198	25	1,173
May	1,191	73	1,264	41,013	87	1,177	34	1,143
Jun.	1,300	57	1,357	42,922	64	1,293	13	1,280
Jul.	1,255	60	1,315	41,208	-55	1,370	27	1,343
Aug.	1,316	74	1,390	42,335	36	1,354	11	1,343
Sep.	1,322	85	1,407	44,651	77	1,331	10	1,321
Oct.	1,253	51	1,304	42,836	-59	1,362	43	1,319
Nov.	1,276	45	1,321	43,878	35	1,287	5	1,282
Dec.	1,357	28	1,385	44,068	6	1,379	41	1,338

See notes and sources at end of table

Section VII
Table 14c

Total United States Supply and Demand for Jet Fuel--Kerosine Type
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1992(p)								
Jan.	1,199	31	1,230	39,854	-136	1,365	44	1,321
Feb.	1,166	47	1,213	37,785	-71	1,283	40	1,243
Mar.	1,215	47	1,262	38,866	35	1,227	6	1,221
Apr.	1,131	56	1,187	36,681	-73	1,259	12	1,247
May	1,214	78	1,292	39,750	99	1,193	7	1,186

(a) Data prior to 1965 are not available on a comparable basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary

SOURCE: 1965-1975: U.S Bureau of Mines, Annual Petroleum Statements
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1947	302	--	302	17,722	1	301	20	281
1948	333	--	333	23,941	17	316	9	307
1949	280	--	280	20,888	-8	288	7	281
1950	325	--	325	19,723	-3	328	5	323
1951	372	--	372	27,088	16	356	19	337
1952	351	--	351	26,529	-1	352	21	331
1953	337	--	337	28,684	4	333	19	314
1954	335	--	335	27,826	-2	337	13	324
1955	326	--	326	26,770	-3	329	9	320
1956	342	--	342	31,420	12	330	9	321
1957	303	--	303	29,200	-6	309	14	295
1958	305	--	305	26,040	-8	313	3	310
1959(b)	305	--	305	26,856	1	304	3	301
1960(c)	374	--	374	31,445	10	364	2	362
1961	391	8	399	32,433	3	396	1	395
1962	431	18	449	31,725	-2	451	1	450
1963	454	24	478	34,102	4	474	2	472
1964	463	31	494	36,165	6	488	--	488
1965(d)	259	--	259	24,080	-9	268	1	267
1966	279	1	280	25,004	2	278	1	277
1967(e)	274	--	274	25,366	--	274	--	274
1968	278	--	278	23,480	-5	283	2	281
1969	282	3	285	26,780	9	276	1	275
1970	262	4	266	27,848	3	263	--	263
1971	240	1	241	24,438	-9	250	1	249
1972	219	1	220	19,111	-16	236	--	236
1973	220	2	222	21,022	6	216	--	216
1974	156	5	161	15,269	-15	176	--	176
1975	152	3	155	15,571	-4	159	--	159
1976	152	9	161	12,514	-8	169	--	169
1977	171	19	190	18,056	15	175	--	175
1978	154	11	165	14,330	-10	175	--	175
1979	183	9	192	15,824	4	189	--	189
1980	137	10	147	11,570	-12	159	--	159
1981	119	7	126	11,042	-1	127	--	127
1982	115	13	128	10,420	-2	130	1	129
1983	110	11	121	7,861	-8	128	1	127
1984	114	12	126	11,893	11	115	--	115

See notes and sources at end of table

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1985	94	8	102	7,502	-12	114	--	114
Jan.	100	10	110	7,905	-129	239	--	239
Feb.	135	12	147	7,124	-28	175	--	175
Mar.	97	4	101	8,095	31	70	--	70
Apr.	69	0	69	7,926	-6	74	--	74
May	43	2	45	7,326	-19	64	--	64
Jun.	59	5	64	6,794	-18	81	--	81
Jul.	77	1	78	7,596	26	52	--	52
Aug.	91	9	100	7,951	11	89	--	89
Sep.	102	0	102	8,701	25	76	--	76
Oct.	117	11	128	9,648	31	97	--	97
Nov.	115	16	131	10,489	28	103	1	102
Dec.	131	23	154	7,502	-96	250	--	250
1986	89	13	102	8,379	2	100	2	98
Jan.	135	29	164	7,272	-7	171	1	170
Feb.	120	1	121	6,735	-19	140	--	140
Mar.	96	11	107	6,179	-18	125	--	125
Apr.	76	0	76	6,837	22	55	1	54
May	47	2	49	6,258	-19	68	0	68
Jun.	45	0	45	6,652	13	31	1	30
Jul.	62	7	69	6,881	7	62	0	62
Aug.	73	26	99	6,859	-1	99	0	99
Sep.	91	16	107	8,344	50	58	1	57
Oct.	91	14	105	8,277	-2	108	8	100
Nov.	107	19	126	8,502	8	118	0	118
Dec.	131	30	161	8,379	-4	165	8	157
1987	79	17	96	8,447	--	96	1	95
Jan.	128	33	161	8,515	4	157	0	157
Feb.	79	36	115	7,578	-33	148	0	148
Mar.	61	9	70	6,523	-34	105	0	105
Apr.	46	9	55	6,851	11	43	0	43
May	38	3	41	6,617	-8	48	0	48
Jun.	38	4	42	6,089	-18	60	0	60
Jul.	53	12	65	6,512	14	51	0	51
Aug.	66	18	84	7,055	18	66	1	65
Sep.	90	13	103	7,989	31	72	0	72
Oct.	118	30	148	8,719	24	125	0	125
Nov.	117	12	129	9,270	18	111	1	110
Dec.	107	29	136	8,447	-27	163	10	153

See notes and sources at end of table

Section VII
Table 15b

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(a)
1988	79	16	95	7,284	-3	97	1	96
Jan.	104	33	137	7,193	-40	177	0	177
Feb.	118	20	138	6,963	-8	145	4	141
Mar.	68	14	82	6,363	-19	102	1	101
Apr.	50	8	58	6,033	-11	68	0	68
May	48	2	50	5,471	-18	68	0	68
Jun.	55	9	64	5,970	17	47	0	47
Jul.	64	0	64	6,211	8	56	0	56
Aug.	81	8	89	7,168	31	57	0	57
Sep.	80	13	93	7,476	10	1	1	81
Oct.	80	28	108	8,030	18	89	2	87
Nov.	99	23	122	8,138	4	2	2	117
Dec.	100	29	129	7,284	-28	156	2	154
1989	74	7	81	5,139	-6	86	2	84
Jan.	110	34	144	7,396	4	140	1	139
Feb.	70	5	75	5,909	-53	128	0	128
Mar.	76	3	79	5,747	-5	84	0	84
Apr.	67	2	69	5,828	3	65	0	65
Jun.	70	1	71	5,840	5	65	0	65
Jul.	55	0	55	6,045	7	49	0	49
Aug.	56	0	56	6,513	15	41	0	41
Sep.	81	1	82	7,565	36	46	2	44
Oct.	74	13	87	7,524	-2	89	0	89
Nov.	94	16	110	7,509	--	110	8	102
Dec.	86	6	92	5,139	-77	169	14	155
1990	45	5	50	5,576	1	48	5	43
Jan.	92	24	116	6,035	29	86	0	86
Feb.	64	6	70	5,315	-26	96	1	95
Mar.	38	1	39	5,006	-10	50	2	48
Apr.	41	6	47	5,006	0	47	1	46
May	21	0	21	5,185	6	16	0	16
Jun.	-4	8	4	4,926	-9	13	1	12
Jul.	43	1	44	5,756	27	16	0	16
Aug.	32	1	33	5,547	-7	40	0	40
Sep.	53	1	54	6,210	22	31	0	31
Oct.	49	1	50	6,388	6	44	26	18
Nov.	55	2	57	6,429	1	55	32	23
Dec.	52	5	57	5,576	-28	85	2	83

See notes and sources at end of table

Total United States Supply and Demand for Kerosine
(Daily Averages in Thousands of Barrels)

Year	Supply: Production	Supply: Imports	Supply: New Supply	Stocks at end of period (thous of barrels)	Demand: Change in Stocks	Demand: Total Demand	Demand: Exports	Demand: Domestic Demand(a)
1991	38	12	50	5,768	1	49	3	46
Jan.	79	9	88	5,404	-6	93	1	92
Feb.	62	2	64	4,937	-17	80	24	56
Mar.	22	1	23	4,290	-21	44	1	43
Apr.	35	4	39	4,286	--	40	1	39
May	25	10	35	4,244	-1	36	9	27
Jun.	25	6	31	4,685	15	17	1	16
Jul.	24	3	27	5,095	13	15	1	14
Aug.	14	1	15	5,007	-3	18	1	17
Sep.	28	1	29	5,683	23	6	1	5
Oct.	37	15	52	6,387	23	29	2	27
Nov.	54	45	99	5,898	-16	115	1	114
Dec.	56	47	103	5,768	-4	107	--	107
1992(p)								
Jan.	67	33	100	4,720	-34	134	21	113
Feb.	46	30	76	4,810	3	73	--	73
Mar.	31	31	62	4,169	-21	83	1	82
Apr.	25	1	26	3,803	-12	38	4	34
May	25	--	25	3,789	--	26	3	23

(a) Totals may not add due to independent rounding.
(b) These figures and those for subsequent years are on a 50 state basis.
(c) These figures and those through 1964 include commercial jet fuel.
(d) These figures and those for subsequent years exclude kerosine-type jet fuel.
(e) Beginning with 1967 production at refineries and at plants are combined in one total.
(p) Preliminary

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Section VII
Table 16

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1947	413	--	413	4,295	-2	415	17	398
1948	464	--	464	6,172	3	461	14	447
1949	494	--	494	7,358	2	491	15	476
1950	578	--	578	8,012	2	576	7	569
1951	651	--	651	8,854	2	649	10	639
1952	695	--	695	8,445	-1	696	11	685
1953	745	--	745	11,220	8	737	11	726
1954	785	--	785	14,979	11	774	12	762
1955	890	--	890	14,596	-1	891	12	879
1956	942	--	942	21,952	20	922	12	910
1957	954	--	954	23,480	4	950	13	937
1958	965	--	965	24,959	8	957	8	949
1959(b)	1,067	--	1,067	27,407	7	1,060	5	1,055
1960	1,141	5	1,146	32,554	14	1,132	8	1,124
1961	1,207	5	1,212	43,365	29	1,183	10	1,173
1962	1,232	6	1,238	36,154	-20	1,258	11	1,247
1963	1,359	7	1,366	37,633	4	1,362	12	1,350
1964	1,446	11	1,457	39,371	5	1,452	15	1,437
1965	1,502	21	1,523	39,542	--	1,523	22	1,501
1966	1,575	29	1,604	43,759	12	1,592	24	1,568
1967	1,715	27	1,742	69,947	74	1,668	25	1,643
1968	1,826	32	1,858	81,086	32	1,826	29	1,797
1969	1,928	35	1,963	65,306	-45	2,008	35	1,973
1970	2,005	52	2,057	74,089	25	2,032	27	2,005
1971	2,050	106	2,156	100,889	73	2,083	26	2,057
1972	2,100	174	2,274	91,792	-25	2,299	31	2,268
1973	2,113	239	2,352	106,476	41	2,311	27	2,284
1974	2,026	211	2,237	120,092	37	2,200	25	2,175
1975	1,944	185	2,129	132,653	34	2,095	26	2,069
1976	1,944	197	2,141	124,518	-22	2,163	25	2,138
1977	1,970	203	2,173	144,902	56	2,117	18	2,099
1978	1,921	139	2,060	140,052	-42	2,101	20	2,081
1979	1,924	230	2,154	125,289	-40	2,187	15	2,172
1980	1,897	216	2,113	137,551	34	2,079	21	2,058
1981	1,905	254	2,159	150,170	11 (c)	2,148	42	2,106
1982	1,809	247	2,056	105,077	-124	2,180	65	2,115
1983	1,875	205	2,080	116,532	470	1,610	73	1,537
1984	1,989	241	2,230	108,446	-22	1,753	51	1,702

See notes and sources at end of table

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1985	1,986	235	2,221	81,707	-73	1,785	64	1,721
Jan.	1,948	284	2,232	96,294	-424	2,127	72	2,055
Feb.	1,967	253	2,220	86,644	-309	2,005	74	1,931
Mar.	1,956	269	2,225	86,001	21	1,752	52	1,700
Apr.	1,976	172	2,148	90,221	141	1,538	80	1,458
May	1,995	221	2,216	96,365	198	1,562	40	1,522
Jun.	2,016	250	2,266	101,922	185	1,617	53	1,564
Jul.	2,001	190	2,191	105,910	129	1,607	70	1,537
Aug.	2,000	182	2,182	108,896	96	1,594	82	1,512
Sep.	1,954	188	2,142	106,667	-74	1,691	29	1,662
Oct.	1,950	271	2,221	97,102	-309	1,970	47	1,923
Nov.	2,001	220	2,221	91,816	-176	1,802	93	1,709
Dec.	2,063	322	2,385	81,707	-326	2,165	77	2,088
1986	1,963	265	2,228	109,532	76	1,674	45	1,629
Jan.	2,128	303	2,431	78,770	-95	1,995	47	1,948
Feb.	2,094	224	2,318	76,170	-93	1,914	80	1,834
Mar.	1,965	220	2,185	78,231	66	1,689	51	1,638
Apr.	1,904	156	2,060	84,220	200	1,419	36	1,383
May	1,962	221	2,183	95,798	373	1,363	43	1,320
Jun.	1,919	302	2,221	111,458	522	1,296	25	1,271
Jul.	1,961	315	2,276	126,110	473	1,435	53	1,382
Aug.	1,889	281	2,170	134,938	285	1,458	56	1,402
Sep.	1,901	314	2,215	138,796	129	1,610	29	1,581
Oct.	1,888	276	2,164	131,785	-226	1,890	26	1,864
Nov.	1,985	322	2,307	122,639	-305	2,016	58	1,958
Dec.	1,976	238	2,214	109,532	-423	2,007	35	1,972
1987	2,040	201	2,241	104,119	-15	1,789	40	1,749
Jan.	2,014	203	2,217	94,979	-502	2,143	46	2,097
Feb.	2,035	215	2,250	88,728	-188	1,948	40	1,908
Mar.	2,037	145	2,182	88,569	-5	1,755	54	1,701
Apr.	2,049	170	2,219	92,705	138	1,658	39	1,619
May	2,023	147	2,170	101,897	297	1,444	36	1,408
Jun.	2,035	131	2,166	107,974	203	1,559	22	1,537
Jul.	2,070	201	2,271	112,761	154	1,693	32	1,661
Aug.	2,020	199	2,219	120,211	240	1,548	35	1,513
Sep.	2,034	289	2,323	122,768	85	1,812	58	1,754
Oct.	2,040	241	2,281	120,373	-77	1,889	23	1,866
Nov.	2,067	243	2,310	116,176	-140	1,927	37	1,890
Dec.	2,051	227	2,278	104,119	-389	2,106	59	2,047

See notes and sources at end of table

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports(a)	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand(d)	Exports	Domestic Demand(e)
1988	2,120	221	2,341	103,988	-587	1,831	51	1,780
Jan.	2,034	237	2,271	85,937	-587	2,291	47	2,244
Feb.	2,067	270	2,337	76,632	-321	2,101	49	2,052
Mar.	2,124	176	2,300	75,802	-27	1,834	38	1,796
Apr.	2,105	216	2,321	87,564	392	1,478	45	1,433
May	2,119	174	2,293	98,374	349	1,480	39	1,441
Jun.	2,119	152	2,271	108,996	354	1,476	40	1,436
Jul.	2,154	234	2,388	121,221	394	1,560	37	1,523
Aug.	2,161	261	2,422	130,287	292	1,657	52	1,605
Sep.	2,146	200	2,346	131,040	25	1,869	45	1,824
Oct.	2,172	227	2,399	128,859	-70	1,965	58	1,907
Nov.	2,134	279	2,413	121,239	-254	2,021	75	1,946
Dec.	2,103	225	2,328	103,988	-556	2,236	87	2,149
1989	2,100	189	2,289	88,806	-43	1,833	41	1,792
Jan.	2,190	250	2,440	92,845	-359	2,186	29	2,157
Feb.	2,101	275	2,376	83,664	-328	2,182	38	2,144
Mar.	2,214	154	2,368	81,203	-79	1,984	49	1,935
Apr.	2,270	131	2,401	90,926	324	1,666	30	1,636
May	2,263	119	2,382	104,999	454	1,523	57	1,466
Jun.	2,146	157	2,303	113,302	277	1,581	48	1,533
Jul.	2,174	202	2,376	126,828	436	1,517	55	1,462
Aug.	2,107	213	2,320	136,625	316	1,570	43	1,527
Sep.	2,048	186	2,234	134,726	-63	1,795	31	1,764
Oct.	1,986	179	2,165	124,802	-320	1,925	33	1,892
Nov.	1,940	186	2,126	112,802	-400	1,905	35	1,870
Dec.	1,756	215	1,971	88,806	-774	2,155	40	2,115
1990	2,098	197	2,295	104,038	42	1,746	41	1,705
Jan.	1,981	280	2,261	85,385	-110	1,789	46	1,743
Feb.	2,054	246	2,300	84,921	-17	1,798	46	1,752
Mar.	2,067	159	2,226	87,398	80	1,772	45	1,727
Apr.	2,050	155	2,205	89,994	87	1,743	27	1,716
May	2,070	217	2,287	99,075	293	1,611	37	1,574
Jun.	2,028	205	2,233	113,609	484	1,368	29	1,339
Jul.	2,068	160	2,228	122,875	299	1,531	38	1,493
Aug.	2,143	267	2,410	133,699	349	1,650	43	1,607
Sep.	2,103	153	2,256	133,589	-4	1,785	42	1,743
Oct.	2,094	169	2,263	125,421	-263	1,999	39	1,960
Nov.	2,042	157	2,199	116,139	-309	1,916	41	1,875
Dec.	1,995	194	2,189	104,038	-390	1,986	60	1,926

See notes and sources at end of table

U.S. Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	**Production**	**Imports(a)**	**New Supply**	**Stocks at end of period (thous of barrels)**	**Change in Stocks**	**Total Demand(d)**	**Exports**	**Domestic Demand(e)**
1991	2,195	170	2,365	99,630	-12	1,905	42	1,863
Jan.	2,062	167	2,229	83,127	-675	1,251	56	1,195
Feb.	2,184	154	2,338	75,872	-259	2,105	60	2,045
Mar.	2,261	132	2,393	79,690	123	1,853	58	1,795
Apr.	2,261	179	2,440	90,657	366	1,675	32	1,643
May	2,316	149	2,465	104,771	455	1,602	46	1,556
Jun.	2,276	192	2,468	116,167	380	1,671	34	1,637
Jul.	2,249	171	2,420	121,792	181	1,815	25	1,790
Aug.	2,232	147	2,379	127,982	200	1,746	18	1,728
Sep.	2,129	150	2,279	124,872	-104	1,931	31	1,900
Oct.	1,686	247	1,933	125,512	21	1,851	31	1,820
Nov.	2,108	181	2,289	114,782	-358	2,077	40	2,037
Dec.	2,125	167	2,292	99,630	-489	2,192	73	2,119
1992(p)								
Jan.	2,123	167	2,290	84,570	-447	2,192	80	2,112
Feb.	2,217	147	2,364	73,447	183	2,283	33	2,250
Mar.	2,343	133	2,476	79,119	-384	1,908	43	1,865
Apr.	2,438	153	2,591	92,307	440	1,768	45	1,723
May	2,445	125	2,570	107,290	483	1,690	44	1,646

(a) Prior to 1960 figures included with gasoline.

(b) These figures and those for subsequent years are on a 50 state basis.

(c) The U.S. Department of Energy altered its stock reporting base as of January 1981. On the new basis, year-end 1980 stocks were 146,145 thousand barrels. This figure was used to compute the 1981 stock change.

(d) Total demand excludes volume used as refinery inputs.

(e) Totals may not add due to independent rounding.

(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annual and Petroleum Supply Monthlies.

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1947	141	--	141	8,624	2	139	41	98
1948	140	--	140	9,843	5	135	37	98
1949	124	--	124	9,219	-2	126	35	91
1950	141	--	141	7,849	-4	145	39	106
1951	168	--	168	9,617	4	164	48	116
1952	151	--	151	11,021	3	148	44	104
1953	144	--	144	10,070	-2	146	35	111
1954	145	--	145	9,702	-1	146	41	105
1955	153	--	153	8,763	-3	156	39	117
1956	161	--	161	10,183	3	158	38	120
1957	152	--	152	10,864	1	151	38	113
1958	140	--	140	9,687	-3	143	35	108
1959(a)	154	--	154	8,950	-2	156	38	118
1960	162	--	162	9,874	2	160	43	117
1961	162	--	162	12,943	2	160	47	113
1962	168	--	168	13,130	--	168	48	120
1963	173	--	173	14,321	3	170	50	120
1964	174	--	174	14,062	-1	175	50	125
1965	172	--	172	13,304	-2	174	45	129
1966	179	--	179	12,682	-2	181	47	134
1967	178	--	178	14,774	6	172	51	121
1968	180	--	180	14,023	-2	182	49	133
1969	178	1	179	14,088	--	179	45	134
1970	181	1	182	14,712	2	180	44	136
1971	179	--	179	15,049	1	178	43	135
1972	179	1	180	13,271	-5	185	41	144
1973	188	6	194	12,186	-3	197	35	162
1974	194	5	199	16,060	11	188	33	155
1975	154	3	157	14,337	-5	162	25	137
1976	169	4	173	12,274	-5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	-	198	27	171
1979	194	9	203	12,549	1	202	23	179
1980	178	7	185	13,483	3	183	23	160
1981	166	8	174	14,304	2	172	19	153
1982	141	10	151	12,531	-5	156	16	140
1983	147	11	158	12,080	-3	162	16	146
1984	159	13	172	12,724	2	171	15	156

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1985	145	13	158	11,827	-2	160	15	145
Jan.	145	12	157	12,931	7	150	14	136
Feb.	149	18	167	12,700	-8	175	12	163
Mar.	147	11	158	12,462	-8	167	16	151
Apr.	149	9	158	11,937	-18	175	13	162
May	153	20	173	11,938	2	173	14	159
Jun.	156	14	170	12,203	9	160	9	151
Jul.	149	10	159	12,469	9	151	13	138
Aug.	152	16	168	12,220	-8	177	17	160
Sep.	154	6	160	12,456	8	153	15	138
Oct.	150	15	165	12,165	-9	174	20	154
Nov.	114	12	126	11,556	-20	146	21	125
Dec.	126	9	135	11,827	9	126	17	109
1986	159	12	171	14,164	6	165	23	142
Jan.	161	16	177	14,431	84	93	19	74
Feb.	168	11	179	14,916	17	161	20	141
Mar.	145	12	157	14,029	-29	186	21	165
Apr.	162	19	181	14,060	1	180	21	159
May	173	14	187	13,982	-3	190	21	169
Jun.	160	9	169	13,586	-13	183	17	166
Jul.	145	14	159	13,255	-11	169	27	142
Aug.	161	5	166	13,279	1	164	23	141
Sep.	163	10	173	13,015	-9	182	21	161
Oct.	154	14	168	12,511	-16	184	30	154
Nov.	167	14	181	13,282	26	155	25	130
Dec.	155	4	159	14,164	28	151	25	126
1987	167	14	181	13,271	-2	184	23	161
Jan.	163	13	176	14,249	3	173	17	156
Feb.	158	16	174	13,691	-20	193	25	168
Mar.	161	12	173	12,953	-24	197	24	173
Apr.	172	14	186	12,455	-17	202	22	180
May	159	9	168	12,122	-11	179	25	154
Jun.	176	17	193	11,675	-15	208	24	184
Jul.	171	23	194	11,705	1	193	28	165
Aug.	168	13	181	11,900	6	175	22	153
Sep.	171	16	187	12,169	9	178	21	157
Oct.	173	12	185	12,620	15	171	21	150
Nov.	173	14	187	13,648	34	152	22	130
Dec.	156	13	169	13,271	-12	182	22	160

See notes and sources at end of table

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1988	170	11	181	13,316	-	181	26	155
Jan.	164	13	177	14,060	25	151	19	132
Feb.	174	14	188	13,905	-5	193	23	170
Mar.	188	13	201	14,040	4	196	26	170
Apr.	178	12	190	14,095	2	188	34	154
May	180	13	193	13,879	-7	200	25	175
Jun.	182	7	189	13,934	2	187	34	153
Jul.	168	10	178	14,093	5	174	26	148
Aug.	170	7	177	13,671	-14	191	26	165
Sep.	144	11	155	12,541	-38	192	30	162
Oct.	168	11	179	12,783	8	171	18	153
Nov.	165	8	173	12,512	-9	183	23	160
Dec.	161	10	171	13,316	26	146	31	115
1989	168	11	179	13,826	1	178	19	159
Jan.	180	12	192	14,412	35	157	14	143
Feb.	171	14	185	14,408	--	184	18	166
Mar.	177	13	190	13,968	-14	205	17	188
Apr.	164	7	171	13,738	-8	178	18	160
May	180	15	195	13,222	-17	212	16	196
Jun.	175	13	188	13,185	-1	189	16	173
Jul.	185	11	196	14,385	39	158	23	135
Aug.	172	12	184	14,480	3	180	19	161
Sep.	160	7	167	14,261	-7	173	17	156
Oct.	142	9	151	13,268	-32	183	17	166
Nov.	168	10	178	13,346	3	176	29	147
Dec.	146	9	155	13,826	15	139	20	119
1990	168	12	180	12,373	-4	184	20	164
Jan.	157	12	169	13,585	-8	176	16	160
Feb.	166	14	180	12,992	-21	201	15	186
Mar.	162	11	173	12,266	-23	197	18	179
Apr.	173	7	180	12,361	3	177	30	147
May	165	27	192	12,321	-1	193	18	175
Jun.	155	7	162	12,351	1	161	21	140
Jul.	175	12	187	12,436	3	184	14	170
Aug.	173	10	183	11,452	-32	215	21	194
Sep.	179	11	190	11,239	-7	197	21	176
Oct.	161	11	172	10,347	-29	201	26	175
Nov.	185	11	196	11,404	35	161	18	143
Dec.	161	8	169	12,373	31	138	18	120

See notes and sources at end of table

Section VII
Table 17c

Total United States Supply and Demand for Lubricants
(Daily Averages in Thousands of Barrels)

	Supply				Demand			
Year	Production	Imports	New Supply	Stocks at end of period (thous of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand(b)
1991	156	8	164	12,326	--	164	18	146
Jan.	167	7	174	12,605	7	167	16	151
Feb.	160	2	162	13,302	25	137	15	122
Mar.	162	5	167	13,555	8	159	17	142
Apr.	152	6	158	13,408	-5	163	17	146
May	158	10	168	13,039	-12	180	21	159
Jun.	166	6	172	13,125	3	169	19	150
Jul.	155	12	167	12,625	-16	182	17	165
Aug.	152	7	159	12,685	2	157	19	138
Sep.	165	14	179	12,737	2	177	17	160
Oct.	144	7	151	12,222	-17	168	18	150
Nov.	142	7	149	12,054	-6	154	18	136
Dec.	153	12	165	12,326	9	155	19	136
1992(p)								
Jan.	155	10	165	12,279	-2	167	16	151
Feb.	156	6	162	12,174	-4	165	17	148
Mar.	162	7	169	12,277	3	166	19	147
Apr.	173	7	180	12,396	4	176	17	159
May	144	12	156	11,126	-41	197	18	179

(a) These figures and those for subsequent years are on a 50 state basis.
(b) Totals may not add due to independent rounding.
(p) Preliminary.

SOURCE: 1947-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Monthlies and Annuals.

Section VII
Table 18

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1984

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	526	67	593	20,378	-3	596	5	588
Propane (a)	807	67	874	57,803	7	867	30	833
Normal Butane (a)	265	37	302	13,681	-18	320	10	143
Isobutane (a)	99	24	123	8,987	-5	128	3	7
Total LPG's (a)	1,697	195	1,892	100,849	-19	1,911	48	1,572
Pentanes Plus (a)	292	46	338	7,597	-3	341	3	129
Total NGL's & LRG's (a)	1,989	241	2,230	108,446	-22	2,252	51	1,702
Petrochemicals	351	33	384	3,347	0	384	21	364
Lubricants	159	13	172	12,724	2	170	15	156
Asphalt & Road Oil	386	18	404	17,183	-4	408	1	408
Petroleum Coke	439	0	439	4,839	-2	441	193	247
Miscellaneous Products(c)	688	66	754	5,751	0	754	4	749
Total Other Oils (a)	4,012	371	4,383	152,290	-26	4,409	285	3,626

1985

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	507	48	555	11,765	-24	580	3	575
Propane (a)	816	67	883	39,474	-50	934	48	883
Normal Butane (a)	253	43	296	14,157	4	292	9	117
Isobutane (a)	126	28	154	7,313	-5	160	2	24
Total LPG's (a)	1,704	187	1,891	72,709	-75	1,965	62	1,599
Pentane Plus (a)	282	49	333	8,189	2	330	2	123
Total NGL's & LRG's (a)	1,986	235	2,221	80,898	-73	2,294	64	1,721
Petrochemicals	356	23	379	3,116	-1	380	19	361
Lubricants	145	13	158	11,657	-2	160	15	145
Asphalt & Road Oil	401	35	436	21,207	11	425	0	425
Petroleum Coke	455	0	455	6,159	4	451	187	264
Miscellaneous Products(c)	718	37	755	8,620	2	753	3	750
Total Other Oils (a)	4,061	343	4,404	131,657	-59	4,463	288	3,666

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1986

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	493	19	512	15,421	10	502	5	495
Propane (a)	817	110	927	62,852	64	863	28	831
Normal Butane (a)	253	68	321	15,859	2	319	7	146
Isobutane (a)	133	45	178	8,526	3	175	2	41
Total LPG's (a)	1,694	242	1,936	10,265	80	1,856	42	1,512
Pentanes Plus (a)	269	23	292	6,874	-4	296	2	116
Total NGL's & LRG's (a)	1,963	265	2,228	10,953	76	2,152	45	1,629
Petrochemicals	404	85	489	3,986	3	486	22	465
Lubricants	159	12	171	14,164	6	165	23	142
Asphalt & Road Oil	410	29	439	17,707	-10	449	1	448
Petroleum Coke	506	1	507	6,030	--	506	238	268
Miscellaneous Products(c)	776	20	796	7,720	5	791	3	789
Total Other Oils (a)	4,218	412	4,630	15,913	80	4,549	332	3,741

1987

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane(a)	509	3	512	22,261	19	493	4	486
Propane(a)	828	88	916	47,792	-41	957	24	924
Normal Butane(a)	260	60	320	16,542	2	318	8	151
Isobutane(a)	152	40	192	10,499	5	187	2	50
Total LPG's(a)	1,749	190	1,939	97,094	-15	1,954	38	1,612
Pentanes Plus(a)	291	11	302	7,025	--	302	2	138
Total NGL's & LRG's(a)	2,040	201	2,241	104,119	-15	2,256	40	1,749
Petrochemicals	384	79	463	3,938	-1	463	20	443
Lubricants	167	14	181	13,271	-2	184	23	161
Asphalt & Road Oil	434	36	470	18,799	3	468	1	467
Petroleum Coke	512	1	513	6,750	2	512	213	299
Miscellaneous Products(c)	783	23	806	8,278	2	805	5	800
Total Other Oils(a)	4,320	354	4,674	155,155	-11	4,688	302	3,919

See notes and sources at end of table

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1988

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	511	3	514	17,872	-12	526	4	520
Propane (a)	863	106	969	50,427	7	962	31	923
Normal Butane (a)	285	65	350	21,009	12	338	11	163
Isobutane (a)	157	35	192	8,031	-7	199	2	50
Total LPG's (a)	1,818	209	2,027	97,339	1	2,026	49	1,656
Pentanes Plus (a)	302	11	313	6,649	-1	314	2	124
Total NGL's & LRG's (a)	2,120	221	2,341	103,988	-	2,341	51	1,780
Petrochemicals	335	147	482	3,704	-1	483	23	459
Lubricants	170	11	181	13,316	0	181	26	155
Asphalt & Road Oil	443	31	474	20,817	6	468	1	468
Petroleum Coke	544	2	546	7,790	3	543	231	312
Miscellaneous Products(c)	821	11	832	7,470	-2	834	10	825
Total Other Oils (a)	4,433	423	4,856	157,085	6	4850	342	3,999

1989

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	478	8	486	23,828	16	470	0	465
Propane (a)	863	111	974	31,528	-52	1,026	24	990
Normal Butane (a)	288	48	336	16,804	-12	348	11	188
Isobutane (a)	162	14	176	8,070	-	176	0	25
Total LPG's (a)	1,791	181	1,972	80,230	-47	2,019	35	1,668
Pentanes Plus (a)	309	8	317	8,576	5	312	6	122
Total NGL's & LRG's (a)	2,100	188	2,288	88,806	-42	2,330	41	1,790
Petrochemicals	342	144	486	3,961	1	485	26	460
Lubricants	168	11	179	13,826	1	178	19	159
Asphalt & Road Oil	424	31	455	20,560	-1	456	3	453
Petroleum Coke	542	1	543	8,600	2	541	233	307
Miscellaneous Products(c)	827	12	839	6,447	-2	841	16	826
Total Other Oils (a)	4,403	387	4,790	142,200	-41	4,831	338	3,995

See notes and sources at end of table

Section VII
Table 18c

Total United States Supply and Demand for "Other Oils" by Major Category
(Daily Averages in Thousands of Barrels)

1990

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	493	7	500	19,874	-11	510	0	510
Propane (a)	878	115	993	48,915	48	945	28	917
Normal Butane (a)	216	50	266	19,321	7	259	12	110
Isobutane (a)	162	16	178	9,798	5	174	0	19
Total LPG's (a)	1,749	188	1,937	97,908	48	1,888	40	1,556
Pentanes Plus (a)	309	9	318	6,130	-7	325	2	148
Total NGL's & LRG's (a)	2,058	197	2,255	104,038	42	2,213	41	1,705
Petrochemicals	405	155	560	3,514	-1	563	26	537
Lubricants	168	12	180	12,373	-4	184	20	164
Asphalt & Road Oil	449	32	481	18,732	-5	486	3	483
Petroleum Coke	552	2	554	7,181	-4	559	220	339
Miscellaneous Products(c)	810	14	824	6,305	0	824	14	810
Total Other Oils (a)	4,442	412	4,854	152,143	28	4,829	324	4,038

1991

	Production	Imports	New Supply	Stocks as of December 31 (mb)	Change in Stocks	Total Demand(b)	Exports	Domestic Demand
Ethane (a)	556	8	564	17,690	-6	569	0	569
Propane (a)	914	91	1005	47,645	-3	1,010	28	982
Normal Butane (a)	229	35	264	18,970	-1	116	14	102
Isobutane (a)	173	13	186	8,035	-5	35	0	35
Total LPG's (a)	1,872	147	2,019	92,340	-15	1,730	41	1,689
Pentanes Plus (a)	324	23	347	7,290	3	174	0	174
Total NGL's & LRG's (a)	2,195	170	2,365	99,630	-12	1,905	42	1,863
Petrochemicals	405	139	544	3,217	-1	545	0	545
Lubricants	156	8	164	12,326	0	164	18	146
Asphalt & Road Oil	430	28	458	22,338	10	447	3	444
Petroleum Coke	568	2	570	9,763	7	563	235	328
Miscellaneous Products(c)	790	10	800	5,468	-2	804	17	787
Total Other Oils (a)	4,544	357	4,901	152,742	2	4,428	315	4,113

(a) The discrepancy between total demand minus exports equals domestic demand is accounted for by refinery inputs, which are not shown here.
(b) Totals may not add due to independent rounding.
(c) Miscellaneous Products include special naphtha, waxes, still gas and miscellaneous products.

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual and Monthly

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1960	239,800	Apr. 30	266,178	Sept. 30	231,966	
1961	244,644	May 31	261,440	Feb. 28	232,063	
1962	252,011	Nov. 30	256,284	Feb. 28	240,166	
1963	237,361	May 31	255,666	Dec. 31	237,361	
1964	230,057	May 31	257,322	Dec. 31	230,057	
1965	220,289	May 31	255,071	Dec. 31	220,289	
1966	238,391	June 30	253,388	Jan. 31	220,302	
1967	248,970	May 31	268,845	Dec. 31	248,970	
1968	272,193	Dec. 31	272,193	Jan. 31	244,946	
1969	265,227	June 30	284,544	Sept. 30	262,528	
1970	276,367	May 31	284,824	Aug. 31	254,144	
1971	259,648	May 31	284,320	Dec. 31	259,648	
1972	246,395	May 31	279,490	Dec. 31	246,395	
1973	242,478	May 31	257,867	Feb. 28	235,362	
1974	265,020	Nov. 30	271,144	Jan. 31	233,035	
1975	271,354	Apr. 30	281,908	Aug. 31	256,616	
1976	285,471	Nov. 30	298,836	Aug. 31	277,272	
1977(a)	339,857	Nov. 30	345,197	Feb. 28	291,462	7,826
1978	309,421	Mar. 31	345,482	Dec. 31	309,421	66,860
1979	339,074	Nov. 30	347,415	Jan. 31	302,059	91,191
1980	358,166	Aug. 31	387,223	Jan. 31	357,500	107,800
1981	363,464	Apr. 30	397,497	Sept. 30	355,982	230,341
1982	349,730	Feb. 28	371,762	Sept. 30	340,675	293,827
1983	343,850	Feb. 28	363,265	July 31	335,131	379,089
1984	345,376	May 31	358,995	Sept. 30	325,207	450,505
1985	320,892	May 31	356,630	Oct. 31	313,687	493,316
Jan.	336,127					457,409
Feb.	321,509					460,138
Mar.	329,624					461,617
Apr.	341,908					464,940
May	356,630					471,930
Jun.	344,058					476,571
Jul.	326,977					483,538
Aug.	318,474					487,126
Sep.	317,365					489,255
Oct.	313,687					489,881
Nov.	320,943					491,464
Dec.	320,892					493,316

Section VII
Table 19a

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1986	331,224	Oct. 31	343,892	June 30	326,654	511,565
Jan.	331,677					494,392
Feb.	331,724					495,381
Mar.	340,900					496,892
Apr.	337,791					498,781
May	328,640					499,877
Jun.	326,654					501,787
Jul.	341,798					503,400
Aug.	332,713					504,974
Sep.	337,799					506,385
Oct.	343,892					507,514
Nov.	339,084					509,471
Dec.	331,224					511,565
1987	348,995	Nov. 30	363,637	July 31	323,750	540,648
Jan.	333,029					514,910
Feb.	331,858					516,709
Mar.	332,451					519,987
Apr.	328,957					521,983
May	324,703					525,129
Jun.	327,598					527,187
Jul.	323,750					530,012
Aug.	332,468					531,978
Sep.	337,164					533,890
Oct.	355,894					535,652
Nov.	363,637					538,547
Dec.	348,995					540,648
1988	330,359					559,515
Jan.	345,583					542,720
Feb.	348,021					544,146
Mar.	354,003					544,938
Apr.	357,377					547,258
May	359,665	May 31	359,665			547,949
Jun.	358,858					550,056
Jul.	349,490					551,344
Aug.	333,564					552,145
Sep.	328,560			Sep. 30	328,560	554,659
Oct.	339,588					556,001
Nov.	337,014					558,673
Dec.	330,359					559,515

See notes and sources at end of table

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1989	341,291					579,857
Jan.	333,912					561,519
Feb.	332,847					563,888
Mar.	326,570			Mar. 30	326,570	566,224
Apr.	339,596					568,009
May	345,614					570,403
Jun.	331,262					571,724
Jul.	333,194					574,388
Aug.	340,979					575,373
Sep.	334,888					577,131
Oct.	336,010					578,271
Nov.	351,006	Nov. 30	351,006			579,490
Dec.	341,291					579,857
1990	322,695					585,692
Jan.	349,007					580,596
Feb.	339,429					580,924
Mar.	370,845					582,279
Apr.	370,472					583,418
May	382,540					586,187
Jun.	384,223	Jun. 30	384,223			586,678
Jul.	379,461					586,678
Aug.	369,500					589,606
Sep.	342,605					589,611
Oct.	346,311					589,359
Nov.	338,727					586,017
Dec.	322,695			Dec. 31	322,695	585,692
1991	324,594					568,508
Jan.	320,496			Jan. 31	320,496	585,692
Feb.	331,098					581,564
Mar.	336,771					568,482
Apr.	338,259					568,482
May	355,809	May 31	355,809			568,482
Jun.	346,842					568,488
Jul.	342,100					568,502
Aug.	345,307					568,503
Sep.	340,641					568,503
Oct.	342,234					568,505
Nov.	343,527					568,502
Dec.	324,594					568,508

See notes and sources at end of table

United States Crude Oil Stocks
(Thousands of Barrels)

Year	Year/Month end Stocks(a)	Year's High		Year's Low		Strategic Petroleum Reserve Stocks
		Date	Stocks(a)	Date	Stocks(a)	
1992(p)						
Jan.	341,164					568,510
Feb.	346,264					568,510
Mar.	338,614					568,511
Apr.	347,913					568,511
May	343,263					568,514

(a) Stocks were first reported for the Strategic Petroleum Reserve (SPR) in October, 1977. SPR stocks are included neither in the December 31 levels nor the year's highs and lows but are reported separately in the last column.
(p) Preliminary

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual and Monthlies.

Section VII
Table 20

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1970		1980		1983		1984	
Company	Sales	Company	Sales	Company	Sales	Company	Sales
Texaco	7,300.0	Exxon	7,930.6	Standard of Indiana	7,419.4	Chevron(j)	10,396.1
Shell	7,050.0	Shell	7,913.8	Shell	7,180.3	Standard of Indiana	7,714.5
Standard of New Jersey	6,656.0	Standard of Indiana	7,790.6	Exxon	7,066.9	Texaco(k)	7,693.7
Standard of Indiana	6,557.0	Mobil	6,329.2	Texaco	5,937.2	Shell	7,252.6
Gulf	6,398.0	Texaco	6,262.4	Mobil	5,768.3	Exxon	7,112.7
Mobil	5,921.0	Standard of California	6,073.8	Gulf	5,427.5	Mobil	5,786.5
Atlantic Richfield	4,979.0	Gulf	5,670.9	Standard of California	5,167.5	Atlantic Richfield	5,085.6
Standard of California	4,161.0	Atlantic Richfield	4,067.5	Atlantic Richfield	4,857.7	Unocal	3,687.0
Sun	3,721.0	Union	3,681.9	Unocal(g)	3,584.6	Phillips	2,902.5
Phillips	3,559.0	Phillips	2,978.4	Phillips	2,730.9	U.S. Steel	2,733.3
Union	2,950.0	Sun	2,888.4	Sun	2,669.9	Sun	2,654.8
Standard of Ohio(b)	2,569.0	Marathon	2,278.6	U.S. Steel	2,295.3	Southland	2,422.8
Continental(c)	2,107.0	Standard of Ohio-BP	2,227.6	Southland(h)	2,235.8	DuPont	2,053.6
Cities Service	1,839.0	Conoco	1,864.1	Standard of Ohio	2,004.5	Standard of Ohio	1,955.2
Marathon	1,552.0	Ashland	1,768.6	DuPont	1,981.5	Ashland	1,662.8
Ashland(d)	1,283.0	Getty	1,565.2	Ashland	1,715.9	Tosco	1,166.0
Getty(e)	1,108.0	Cities Service	1,517.9	Getty	1,278.4	Diamond Shamrock	1,005.6
Tenneco	838.0	Clark	1,195.8	Tosco	1,162.2	American Petrofina	990.6
Kerr-McGee(f)	690.0	Tosco	960.2	Diamond Shamrock(i)	944.2	Tenneco	793.3
Murphy	677.0	Tenneco	928.7	American Petrofina	913.5	Total	734.3
U.S. TOTAL	89,862.0	U.S. TOTAL	105,228.5	U.S. TOTAL	102,215.6	U.S. TOTAL	105,066.5

See notes and sources at end of table

Section VII
Table 20a

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1985 Company	1985 Sales	1986 Company	1986 Sales	1987 Company	1987 Sales	1988 Company	1988 Sales
Chevron	8,423.4	Shell	8,692.1	Shell	9,074.7	Shell	9,442.8
Amoco (Standard of Indiana)	8,077.8	Amoco	8,330.2	Amoco	8,179.9	Amoco	8,317.7
Shell	7,719.4	Exxon	7,799.2	Exxon	7,608.7	Exxon	8,091.7
Exxon	7,492.9	Chevron(l)	7,620.9	Mobil	7,527.9	Mobil	7,830.3
Texaco	7,051.6	Mobil	7,136.8	Chevron	7,233.2	Chevron	7,421.9
Mobil	6,511.4	Texaco	7,102.0	Texaco	7,084.6	Texaco	7,038.3
Atlantic Richfield	4,283.1	Unocal	4,058.9	Unocal	4,118.9	Unocal	4,145.7
Union	3,979.1	Standard Oil	3,730.9	BP America (Standard)(n)	3,718.2	BP America	3,699.0
Standard Oil (Ohio)(b)	3,806.7	Phillips	3,204.4	Phillips	3,420.4	Phillips	3,681.8
Phillips	3,201.4	ARCO	2,887.7	ARCO	3,201.5	Sun(u)	3,664.0
Sun	2,690.7	Sun	2,777.7	Sun	2,917.7	ARCO	3,360.3
Southland	2,525.3	Southland	2,768.7	USX(o)	2,720.2	USX(v)	2,765.2
U.S. Steel	2,499.2	USX (U.S. Steel)	2,752.4	DuPont(p)	2,373.5	DuPont(w)	2,451.8
DuPont	2,123.4	DuPont	2,246.6	Ashland	1,898.5	Ashland	1,965.4
Ashland	1,700.1	Ashland	1,853.0	Petroleos de Venezuela(q)	1,655.3	Southland(x)	1,560.1
American Petrofina	983.6	Diamond Shamrock	1,030.4	Cumberland Farms	1,469.6	Cumberland Farms	1,420.8
Diamond Shamrock	976.3	American Petrofina	969.1	Southland(r)	1,458.5	Petroleos de Venezuela(y)	1,361.5
Tenneco	888.5	Tenneco	913.2	Coastal(m)	1,005.0	Coastal States	1,080.5
Amerada Hess	764.4	Getty Petroleum	804.1	Diamond Shamrock Refining and Marketing(s)	952.9	Diamond Shamrock	974.6
Kerr-McGee	725.6	Cumberland Farms(t)	776.2	Tenneco	929.4	American Petrofina	945.8
U.S. TOTAL	106,425.7	U.S. TOTAL	109,880.5	U.S. TOTAL	111,965.4	U.S. TOTAL	114,532.4

See notes and sources at end of table

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

1989	
Company	**Sales**
Shell	9,402.3
Amoco	8,510.5
Exxon	8,098.5
Mobil	7,832.4
Chevron	7,391.1
Texaco(z)	4,978.8
Unocal	4,144.5
BP America	3,819.9
Sun	3,704.7
Phillips	3,594.7
ARCO	3,434.6
USX(v)	2,980.5
DuPont(w)	2,421.8
Aramco(z)	2,315.4
Petroleos de Venezuela(y)	1,549.9
Southland(x)	1,456.4
Cumberland Farms	1,384.5
Coastal States	1,054.8
Diamond Shamrock	1,001.5
American Petrofina	931.8
U.S. TOTAL	115,344.9

See notes and sources at end of table

Twenty Leading Companies
Motor Gasoline Sales(a)
(Millions of Gallons)

(a) Sales data represent net taxable gasoline gallonage sold in the U.S. by all petroleum marketers, including non-retail sales by suppliers, cooperatives, etc. Lundberg Survey, Inc. obtains data primarily from state tax collecting agencies, and also by direct inquiry.

(b) Includes sales of subsidiaries BP Oil and Boron.

(c) Includes sales under the brand names of Douglas, Kayo and Onco.

(d) Includes sales of subsidiary Northwestern Refining Company.

(e) Includes all sales by Skelly Oil Company.

(f) Includes sales under the brand name Triangle.

(g) Unocal Corporation is the parent of Union Oil Company of California.

(h) Includes Cities Service. Southland acquired the refining, marketing and transportation sections of Citgo Petroleum Corp., a subsidiary of Occidental, on September 1, 1983.

(i) Diamond Shamrock acquired Sigmor in September 1983.

(j) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure reflects this acquisition.

(k) Texaco acquired Getty Oil Company on March 1, 1984. Texaco's figures reflects this acquisition.

(l) During 1986 Chevron sold most of its petroleum marketing and distribution assets in ten northwestern states and Ohio. The primary purchaser of these operations was Cumberland Farms, Inc.

(m) Includes sales under brand names Derby and Belcher.

(n) BP America was formed in 1987 through the acquisition of the Standard Oil Company by BP North America Inc.

(o) USX's figure includes sales under the brand name Marathon and affiliated brands.

(p) DuPont's figure includes sales under the brand name Conoco and affiliated brands.

(q) Petroleos de Venezuela, the Venezuelan national oil company, owns one-half of Citgo Petroleum, and one-half of Champlin Refining Company.

(r) Southland's figure represents the Southland Corporation's 50 percent ownership of Citgo Petroleum.

(s) Diamond Shamrock Refining and marketing became an independent company on Apil 30 from Maxus Energy Corporation (the former Diamond Shamrock).

(t) Cumberland Farms purchased the Gulf assets from Chevron in 11 northeastern states. Cumberland Farms operates a division using the Gulf brand name in all states in its marketing territory, except Florida.

(u) On November 1, 1988, Sun Company acquired the assets of Atlantic Petroleum Corporation. Sun's figure includes 100 percent of Atlantic's annual motor gasoline sales of 674,481,000 gallons.

(v) USX's figure includes sales under the brand name Marathon, and affiliated brands.

(w) DuPont's figure includes sales under the brand name Conoco and affiliated brands.

(x) Southland's figure represents the Southland Corporation's 50 percent ownership of Citgo Petroleum.

(y) Petroleos de Venezuela, (PDV) the Venezuelan national oil company, owns one-half of Citgo Petroleum, in 1989 Citgo's motor gasoline sales were 2,257,377,000 gallons. In 1988 it owned half of Champlin Refining Company. On January 1, 1989, PDV acquired the other equity share of Champlin Refining Company from Union Pacific Resources.

(z) Figures for both Texaco and Aramco include their equity portion of the total motor gasoline sales (4,630,800,000 gallons) of Star Enterprise, a joint venture formed on December 31, 1988 between Texaco and Aramco Services (the Saudi Arabian Oil Company).

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989

United States Oil Product Consumption by State, 1986-1990
(In Thousands of Barrels)

1986

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	46,449	3,949	16,587	2,464	3,486	4,024	7,126	84,085
Alaska	5,426	16,804	12,534	7,081	373	268	4,930	47,417
Arizona	37,845	7,923	11,362	41	2,530	1,704	544	61,947
Arkansas	27,901	2,030	13,322	926	982	3,803	2,324	51,287
California	279,574	76,514	75,606	58,047	15,373	20,119	54,630	579,863
Colorado	36,505	8,241	10,181	246	3,091	2,161	1,542	61,967
Connecticut	31,861	1,327	21,170	22,279	2,124	1,134	1,843	81,739
Delaware	7,719	1,361	3,650	5,101	609	878	3,625	22,942
Dist. of Columbia	3,877	501	2,408	1,485	31	4	54	8,360
Florida	131,094	26,045	33,262	57,612	8,240	10,568	4,717	271,538
Georgia	76,959	17,995	24,948	3,628	5,641	6,342	5,711	141,224
Hawaii	7,878	10,455	4,587	14,326	272	126	1,287	38,931
Idaho	10,894	1,204	5,915	20	544	735	162	19,473
Illinois	108,643	2,263	35,537	8,310	6,185	32,529	26,752	220,225
Indiana	59,994	19,045	32,538	4,308	6,063	6,143	12,463	140,554
Iowa	31,356	746	16,077	508	2,038	8,774	1,676	61,174
Kansas	28,453	7,200	14,394	487	2,657	16,615	7,157	76,962
Kentucky	42,519	3,634	21,505	739	2,285	5,118	8,183	83,984
Louisiana	49,923	18,004	35,184	26,518	1,792	60,686	68,512	260,617
Maine	13,437	1,673	12,164	12,812	734	1,038	175	42,031
Maryland	46,915	3,990	18,321	7,282	5,211	1,428	4,426	87,573
Massachusetts	56,381	7,058	36,385	49,646	1,114	2,279	2,926	155,790
Michigan	96,017	7,379	26,918	3,761	3,384	15,690	12,080	165,230
Minnesota	45,777	8,026	19,010	1,797	5,480	6,280	4,057	90,427
Mississippi	28,549	5,051	14,903	4,461	1,904	3,663	5,086	63,617
Missouri	63,390	6,874	18,402	551	4,624	5,907	9,519	109,267
Montana	10,158	972	7,026	47	1,989	1,505	2,877	24,575
Nebraska	17,757	1,470	12,219	252	954	2,449	678	35,781
Nevada	12,212	6,076	5,569	641	567	924	133	26,120
New Hampshire	11,130	658	6,161	7,082	553	1,680	219	27,483
New Jersey	80,694	39,356	46,186	30,986	5,565	6,405	28,954	238,145
New Mexico	18,298	2,867	9,779	263	1,616	1,757	1,446	36,046
New York	136,801	3,994	73,603	79,619	6,438	4,878	9,431	314,764
North Carolina	74,006	7,350	31,554	6,338	4,533	7,289	6,053	137,122
North Dakota	8,580	1,683	7,421	377	877	1,730	1,035	21,703
Ohio	111,935	10,299	37,405	2,313	7,341	14,652	20,086	204,032
Oklahoma	40,569	6,192	14,025	393	3,281	5,950	6,419	76,828
Oregon	29,947	2,811	14,925	5,491	2,225	1,517	1,878	58,793
Pennsylvania	104,105	10,166	58,089	23,616	5,956	8,430	19,146	229,509
Rhode Island	8,938	422	5,470	3,771	1,479	585	188	20,853
South Carolina	39,284	3,324	12,877	2,401	2,068	2,880	4,538	67,372
South Dakota	9,004	601	6,096	60	815	1,567	142	18,284
Tennessee	60,297	6,126	23,127	581	4,158	2,678	9,892	106,858
Texas	209,517	81,753	87,032	27,842	13,645	250,171	148,078	818,039
Utah	17,541	4,445	7,336	360	1,295	1,542	2,389	34,907
Vermont	5,966	160	4,354	471	419	867	141	12,377
Virginia	65,186	13,383	31,231	12,403	4,444	3,380	4,756	134,782
Washington	46,951	17,301	24,034	15,553	2,404	2,525	10,926	119,693
West Virginia	18,653	269	8,260	1,182	565	1,148	16,790	46,866
Wisconsin	47,422	1,670	22,048	1,044	2,055	5,361	2,990	82,590
Wyoming	7,152	194	6,908	190	1,604	2,169	2,463	20,082
TOTAL U.S.	2,567,439	488,854	1,099,605	517,718	163,613	552,055	553,155	5,942,428

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1990
(In Thousands of Barrels)

1987

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	48,421	4,015	18,878	2,425	4,564	4,653	8,251	91,208
Alaska	5,190	15,058	12,798	3,392	257	271	4,444	41,410
Arizona	39,180	8,581	10,698	122	2,492	1,943	615	63,630
Arkansas	28,509	2,155	13,497	264	1,018	3,503	2,501	51,447
California	292,232	80,941	74,787	66,359	16,458	22,328	55,687	608,791
Colorado	36,111	8,525	9,949	34	3,110	2,336	1,821	61,885
Connecticut	32353	1,839	21,780	18,937	2,139	1,558	1,917	80,522
Delaware	7,867	1,303	4,192	4,756	573	1,006	3,761	23,458
Dist. of Columbia	4,236	0	1,950	1,352	31	4	61	7,634
Florida	137,457	27,280	34,050	45,630	7,583	8,794	4,807	265,601
Georgia	79,934	19,909	26,253	3,151	5,977	6,337	5,755	147,316
Hawaii	8,167	11,730	4,061	14,809	397	157	1,563	40,884
Idaho	10,702	1,230	6,394	63	499	621	183	19,695
Illinois	110,253	2,156	34,432	6,948	6,315	41,884	29,006	230,994
Indiana	63,170	19,519	32,250	3,578	7,600	6,094	14,249	146,459
Iowa	31,614	889	15,872	117	1,788	6,098	1,787	58,165
Kansas	29,085	4,406	16,785	351	2,614	16,113	7,722	77,075
Kentucky	42,886	4,889	21,183	848	2,701	6,750	9,869	89,126
Louisiana	48,106	19,006	36,713	23,986	2,275	53,296	73,906	257,288
Maine	14,072	1,866	12,671	9,230	852	1,303	197	40,192
Maryland	48,104	3,858	19,286	9,056	4,823	1,741	5,390	92,258
Massachusetts	57,559	7,973	38,414	38,024	1,479	2,634	3,093	149,177
Michigan	98,925	8,613	25,741	3,307	3,506	17,656	12,863	170,611
Minnesota	46,910	5,834	18,356	1,202	5,860	5,418	4,613	88,192
Mississippi	29,241	7,770	16,821	2,043	2,174	3,694	5,883	67,627
Missouri	63,611	7,597	19,346	677	4,351	6,226	10,462	112,271
Montana	10,234	800	6,564	23	1,642	1,716	3,641	24,620
Nebraska	17,844	1,463	12,403	264	1,241	3,218	728	37,162
Nevada	13,045	6,532	6,542	524	864	938	153	28,599
New Hampshire	11,819	672	8,007	5,491	779	2,056	234	29,057
New Jersey	81,137	43,524	45,138	25,127	5,312	7,721	30,245	238,203
New Mexico	18,897	3,070	10,714	87	2,069	1,537	1,620	37,992
New York	142,598	3,030	77,227	77,373	6,553	5,474	11,149	323,406
North Carolina	76,542	7,967	32,042	6,253	4,022	8,791	6,636	142,253
North Dakota	8,816	1,283	6,827	354	884	1,773	1,159	21,097
Ohio	115,823	11,039	34,976	2,070	9,006	15,912	22,542	211,[illegible]
Oklahoma	38,642	7,619	14,023	330	2,729	5,487	7,310	76,141
Oregon	30,579	3,055	16,224	5,067	2,140	1,490	2,601	61,153
Pennsylvania	106,382	10,677	60,641	23,822	6,572	8,398	21,259	237,751
Rhode Island	9,119	570	6,165	2,311	1,773	669	212	20,818
South Carolina	38,973	3,312	13,209	2,447	2,425	3,620	5,168	69,155
South Dakota	8,995	749	5,934	55	674	2,358	161	18,926
Tennessee	62,989	5872	23,264	319	4,565	2,613	10,275	109,895
Texas	204,864	85,712	88,930	21,877	12,601	272,281	155,418	841,683
Utah	17,582	5,068	6,798	355	1,429	1,652	2,680	35,564
Vermont	6,514	202	4,685	336	491	1,101	155	13,485
Virginia	69,733	14,506	31,805	10,816	4,406	4,126	5,032	140,423
Washington	51,133	18,871	22,086	13,710	2,208	3,345	15,238	126,650
West Virginia	19,293	246	9,519	538	537	1,202	17,031	48,366
Wisconsin	47,381	1,531	21,266	1,175	2,396	5,632	3,241	82,621
Wyoming	7,261	253	8,783	118	1,469	2,756	2,801	23,440
TOTAL U.S.	2,630,090	514,565	1,120,929	461,503	170,283	588,284	597,095	6,082,744

See notes and sources at end of table

Section VII
Table 21b

United States Oil Product Consumption by State, 1986-1990
(In Thousands of Barrels)

1988

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	48,151	2,029	20,590	3,424	4,132	4,438	8,306	91,069
Alaska	5,325	17,306	8,774	711	698	277	5,292	38,383
Arizona	40,269	8,664	10,517	54	2,683	1,721	593	64,501
Arkansas	29,578	2,321	14,232	354	1,373	3,552	2,563	53,974
California	304,020	83,932	84,717	68,605	15,343	22,798	62,630	642,045
Colorado	36,437	6,627	11,275	32	3,552	2,705	1,941	62,567
Connecticut	32,881	2,204	23,704	21,841	1,853	1,518	1,895	85,896
Delaware	8,195	1,380	4,193	6,353	410	1,017	4,161	25,709
Dist. of Columbia	4,364	5	1,883	1,166	33	5	59	7,515
Florida	141,915	32,842	35,578	53,862	7,931	8,020	4,703	284,852
Georgia	83,630	20,522	28,259	3,102	6,048	6,731	5,633	153,924
Hawaii	8,487	12,253	5,914	18,423	351	178	2,012	47,621
Idaho	11,219	1,230	6,517	56	402	747	177	20,348
Illinois	116,201	4,143	34,012	5,886	5,604	45,341	31,647	242,834
Indiana	64,225	16,978	29,457	3,113	6,941	6,753	15,786	143,252
Iowa	32,552	858	16,053	256	2,213	6,612	1,729	60,273
Kansas	30,859	4,324	16,633	807	4,378	19,029	8,854	84,884
Kentucky	44,191	5,047	25,670	565	2,616	6,719	10,270	95,077
Louisiana	48,882	21,546	39,166	26,530	2,398	52,569	80,446	271,537
Maine	15,388	2,169	14,713	12,089	1,586	1,608	190	47,745
Maryland	49,190	4,575	20,077	10,392	4,350	1,695	5,226	95,505
Massachusetts	59,422	9,447	37,184	38,377	1,763	2,373	2,983	151,549
Michigan	102,502	8,826	28,104	4,780	2,876	17,302	12,818	177,210
Minnesota	48,877	5,308	20,063	1,270	4,897	5,621	5,637	91,674
Mississippi	29,517	8,135	19,108	3,533	2,627	3,927	6,886	73,733
Missouri	64,948	7,469	21,325	750	5,657	6,555	10,396	117,099
Montana	10,455	916	6,312	220	1,473	1,515	4,041	24,932
Nebraska	18,634	1,601	14,071	410	1,262	3,500	723	40,200
Nevada	14,078	6,536	6,837	1,004	931	1,098	161	30,644
New Hampshire	12,337	762	7,296	6,343	430	2,084	236	29,487
New Jersey	81,188	40,972	47,504	23,231	4,332	7,480	31,273	235,981
New Mexico	19,328	2,867	10,280	120	2,113	1,497	1,837	38,040
New York	133,365	5,019	80,723	88,828	7,989	5,238	11,324	332,487
North Carolina	79,036	8,554	36,349	6,085	4,490	7,863	6,671	149,048
North Dakota	8,599	1,347	6,791	348	956	1,606	1,331	20,977
Ohio	117,047	9,549	38,803	2,801	6,356	11,025	23,156	208,738
Oklahoma	38,857	7,396	15,005	657	3,564	4,911	8,393	78,782
Oregon	32,134	3,287	16,493	6,121	2,423	1,581	2,547	64,587
Pennsylvania	110,875	11,894	62,441	21,972	5,473	6,105	22,944	241,703
Rhode Island	9,289	682	6,050	3,034	1,741	564	190	21,550
South Carolina	37,450	3,356	14,090	3,256	3,297	3,536	5,247	70,230
South Dakota	9,187	964	6,246	84	878	1,579	155	19,093
Tennessee	59,380	4,414	24,583	443	4,048	3,108	10,659	106,635
Texas	208,955	95,806	86,641	24,198	14,434	292,960	168,658	891,652
Utah	18,172	5,089	7,353	287	1,069	1,432	3,037	36,440
Vermont	6,806	160	5,125	236	396	1,157	153	14,033
Virginia	71,192	15,774	35,640	10,044	3,604	4,251	5,079	145,584
Washington	50,765	20,861	22,036	16,249	1,921	2,828	16,639	131,299
West Virginia	19,770	286	9,649	628	879	1,231	17,469	49,913
Wisconsin	49,587	1,437	24,251	1,089	3,416	6,029	3,233	89,042
Wyoming	7,436	246	9,419	256	1,046	2,083	3,352	23,838
TOTAL U.S.	2,685,147	539,915	1,177,706	504,275	171,236	606,072	641,341	6,325,691

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1990
(In Thousands of Barrels)

1989

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	49,464	2,179	24,824	3,645	4,484	4,827	7,368	96,791
Alaska	5,077	19,077	11,057	348	274	278	4,797	40,908
Arizona	40,629	8,367	11,469	152	2,386	1,639	731	65,373
Arkansas	29,395	2,041	14,569	371	778	3,806	2,569	53,528
California	310,769	91,594	82,011	67,321	14,996	24,211	58,988	649,891
Colorado	35,403	5,518	10,430	21	2,928	3,741	2,052	60,095
Connecticut	32,258	2,282	26,298	22,163	1,797	1,585	1,879	88,261
Delaware	8,151	1,273	4,500	5,762	522	961	4,175	25,345
Dist. of Columbia	4,198	0	1,900	1,444	27	5	61	7,634
Florida	142,152	34,542	36,201	53,411	6,481	8,042	4,670	285,499
Georgia	83,531	17,661	28,439	2,642	4,958	7,396	5,575	150,202
Hawaii	8,750	13,526	5,685	19,101	296	186	2,098	49,641
Idaho	11,297	1,294	6,869	45	831	839	181	21,355
Illinois	115,487	4,689	34,932	4,031	8,052	13,097	31,600	211,889
Indiana	61,672	17,845	33,772	3,234	6,396	8,247	15,789	146,955
Iowa	32,558	861	15,032	182	1,710	7,209	1,723	59,276
Kansas	29,838	3,989	15,841	368	3,109	19,396	8,953	81,493
Kentucky	43,408	5,124	29,078	470	2,764	6,384	10,122	97,351
Louisiana	46,863	22,436	37,217	25,901	2,315	43,593	80,663	258,988
Maine	14,187	2,317	13,215	11,841	1,000	1,570	195	44,326
Maryland	49,100	4,467	21,587	15,081	4,500	2,135	4,439	101,310
Massachusetts	58,262	10,123	40,770	38,030	1,426	2,565	2,953	154,128
Michigan	101,095	9,503	25,390	4,501	3,863	18,740	12,829	175,921
Minnesota	48,553	4,821	19,518	1,064	4,923	6,119	6,308	91,306
Mississippi	29,009	6,720	17,177	3,554	1,975	5,011	7,021	70,465
Missouri	63,684	7,477	22,245	557	4,545	8,295	10,227	117,030
Montana	10,305	845	7,682	181	1,749	1,742	4,159	26,663
Nebraska	18,418	1,581	12,454	374	1,130	3,626	729	38,311
Nevada	14,563	6,223	7,476	667	1,398	1,763	166	32,257
New Hampshire	12,279	792	8,097	6,178	742	2,470	235	30,793
New Jersey	81,366	44,268	46,574	22,649	4,032	6,250	31,885	237,025
New Mexico	18,888	2,945	9,047	182	1,666	6,730	1,899	41,357
New York	133,419	6,136	81,405	85,271	4,967	5,576	11,153	327,928
North Carolina	77,740	7,920	30,431	5,475	3,766	9,322	6,538	141,192
North Dakota	8,394	1,367	7,021	295	924	1,782	1,349	21,132
Ohio	116,158	10,655	39,575	2,304	10,622	13,254	23,185	215,753
Oklahoma	38,870	9,404	14,882	392	2,750	5,781	8,716	80,795
Oregon	31,874	3,479	16,304	5,349	2,802	1,612	2,490	63,911
Pennsylvania	108,862	9,838	64,452	21,800	6,718	6,913	23,115	241,698
Rhode Island	8,869	770	5,965	1,694	1,605	500	190	19,593
South Carolina	42,627	3,237	13,925	2,724	2,313	3,679	5,134	73,639
South Dakota	9,121	1,112	5,453	66	776	3,623	159	20,310
Tennessee	60,028	4,538	24,136	460	5,703	3,484	10,488	108,839
Texas	203,422	94,085	88,649	28,620	9,682	308,842	168,163	901,464
Utah	17,303	5,201	6,190	251	1,671	1,507	3,177	35,300
Vermont	6,551	237	4,990	191	453	1,504	154	14,084
Virginia	70,896	15,843	31,771	11,886	4,203	4,481	5,078	144,158
Washington	53,788	20,780	21,749	15,714	2,612	3,636	18,294	136,574
West Virginia	19,475	418	10,593	1,049	812	1,539	17,746	51,633
Wisconsin	49,106	1,472	24,344	1,025	3,805	6,929	3,233	89,913
Wyoming	7,557	199	9,788	30	924	2,502	3,402	24,401
TOTAL U.S.	2,674,669	553,071	1,182,979	500,067	165,161	608,924	638,803	6,323,684

See notes and sources at end of table

United States Oil Product Consumption by State, 1986-1990
(In Thousands of Barrels)

1990

State	Motor Gasoline	Aviation Fuels	Middle Distillates	Residual Fuel Oil	Asphalt	LPG's	All Other	Total Products
Alabama	48,916	2,015	25,500	3,945	4,321	4,166	7,709	96,572
Alaska	5,821	17,858	11,595	428	269	384	4,699	41,053
Arizona	39,100	8,695	12,068	28	2,367	1,508	755	64,520
Arkansas	28,830	1,818	14,296	230	495	3,485	2,703	51,857
California	304,224	96,013	82,704	64,519	14,862	20,918	57,988	641,227
Colorado	35,358	6,276	10,423	13	3,257	3,104	2,100	60,530
Connecticut	30,961	2,438	20,713	16,573	1,585	1,593	2,074	75,937
Delaware	7,966	1,384	3,379	3,818	537	1,050	5,445	23,578
Dist. of Columbia	4,020	5	1,548	1,022	30	4	62	6,693
Florida	141,533	32,766	34,717	54,399	6,804	7,748	5,120	283,087
Georgia	82,670	18,635	28,735	3,516	6,398	6,031	6,081	152,068
Hawaii	8,620	12,918	6,822	19,119	381	178	2,252	50,292
Idaho	11,387	1,182	7,182	47	1,281	610	186	21,875
Illinois	120,422	4,116	42,703	3,609	8,339	13,008	34,248	226,443
Indiana	61,574	18,191	33,086	3,856	8,552	9,746	17,474	152,479
Iowa	31,502	990	15,304	125	1,537	6,383	1,859	57,699
Kansas	28,462	3,837	16,588	231	3,875	16,015	9,116	78,125
Kentucky	42,793	5,764	23,975	541	3,032	6,305	11,123	93,532
Louisiana	43,714	25,987	39,311	23,153	1,672	46,636	86,930	267,403
Maine	14,045	2,590	12,650	10,663	645	1,391	201	42,185
Maryland	47,142	3,711	17,469	9,858	5,008	2,018	5,036	90,241
Massachusetts	55,704	9,903	34,005	32,011	1,339	2,632	3,198	138,791
Michigan	99,339	10,272	23,582	2,740	3,950	14,976	13,808	168,666
Minnesota	47,486	5,313	18,523	968	6,039	5,968	6,656	90,952
Mississippi	28,913	7,054	16,186	3,676	2,509	7,127	7,125	72,590
Missouri	63,626	6,773	20,788	625	4,468	6,864	11,505	114,650
Montana	10,269	819	7,430	219	1,487	1,848	4,508	26,580
Nebraska	18,345	1,584	12,496	259	1,388	2,912	778	37,763
Nevada	14,856	6,225	7,374	454	1,083	1,431	111	31,534
New Hampshire	11,710	668	6,591	5,244	1,198	2,122	248	27,781
New Jersey	77,893	46,496	35,613	15,283	3,586	4,329	33,068	216,267
New Mexico	18,540	2,998	9,183	149	1,451	8,713	1,950	42,982
New York	138,380	5,525	68,593	77,417	5,524	5,607	12,629	313,674
North Carolina	77,079	5,780	26,700	5,901	4,207	8,901	7,365	135,932
North Dakota	8,105	1,206	6,770	329	814	1,423	1,333	19,980
Ohio	109,852	10,841	37,567	1,667	9,880	11,076	24,293	205,175
Oklahoma	39,168	7,978	15,386	627	3,508	3,561	9,017	79,245
Oregon	31,545	3,440	17,077	4,463	3,026	1,384	2,919	63,855
Pennsylvania	106,849	12,187	55,567	17,608	7,466	6,425	23,854	229,957
Rhode Island	8,715	818	4,690	1,432	1,634	501	193	17,983
South Carolina	43,016	3,040	15,197	2,434	1,983	2,928	6,000	74,598
South Dakota	8,934	1,190	5,533	61	790	3,691	163	20,362
Tennessee	57,668	4,355	24,310	309	5,798	2,907	11,855	107,202
Texas	204,221	96,741	82,538	27,666	14,013	289,666	182,273	897,117
Utah	16,628	5,387	7,352	369	1,378	1,124	3,190	35,428
Vermont	6,657	195	4,268	239	27	1,401	155	12,942
Virginia	69,928	15,876	29,314	7,854	4,701	4,089	5,464	137,225
Washington	53,156	22,656	21,862	16,393	2,481	2,475	20,937	139,961
West Virginia	19,530	309	10,055	1,277	728	1,614	20,108	53,621
Wisconsin	48,507	1,546	23,099	1,117	3,685	6,665	3,386	88,004
Wyoming	7,064	178	9,607	40	955	1,329	3,416	22,589
TOTAL U.S.	2,640,743	564,542	1,118,024	448,524	176,343	567,970	684,666	6,200,802

SOURCE: U.S. Energy Information Administration, State Energy Data Report, 1960-1990.

Historical United States Oil Consumption by Major Product: 1918-1946 (Thousands of Barrels)

Year	Total Consumption	Motor Fuels(a)	Distillate	Residual	Kerosine	Other
1918	271,706	79,949	142,751 (b)	(b)	34,442	14,564
1919	374,586	88,648	163,803 (b)	(b)	33,188	88,947
1920	455,806	108,945	185,972 (b)	(b)	33,082	127,807
1921	457,560	116,840	195,656 (b)	(b)	29,537	115,527
1922	530,975	137,770	237,063 (b)	(b)	34,851	121,291
1923	652,114	174,462	261,388 (b)	(b)	35,536	180,728
1924	687,540	196,586	290,766 (b)	(b)	36,712	163,476
1925	727,178	232,745	307,033 (b)	(b)	39,969	147,431
1926	780,755	268,128	339,572 (b)	(b)	38,140	134,915
1927	803,177	305,367	339,265 (b)	(b)	37,491	121,054
1928	860,241	338,881	383,974 (b)	(b)	36,235	101,151
1929	940,581	382,878	415,156 (b)	(b)	36,032	106,515
1930	926,642	397,609	368,531 (b)	(b)	34,736	125,766
1931	902,593	403,843	334,668 (b)	(b)	31,358	132,724
1932	835,230	377,791	65,101	243,056	33,221	116,061
1933	868,200	380,494	64,748	258,957	38,493	125,508
1934	919,838	410,339	74,824	265,547	44,234	124,894
1935	983,317	434,810	86,028	280,695	47,645	134,139
1936	1,092,379	481,606	102,757	307,884	51,428	148,704
1937	1,169,205	519,352	116,841	325,514	54,972	152,526
1938	1,136,705	523,003	117,449	291,833	56,360	148,060
1939	1,230,486	555,509	134,973	323,488	60,503	156,013
1940	1,326,620	589,490	160,851	340,163	68,776	167,340
1941	1,485,779	667,505	172,824	383,422	69,469	192,559
1942	1,449,908	589,110	185,661	405,697	69,767	199,673
1943	1,521,426	568,238	208,110	467,008	68,598	209,472
1944	1,671,263	632,482	209,320	512,020	71,812	245,629
1945	1,772,685	696,333	226,084	523,423	75,573	251,272
1946	1,792,786	735,417	242,894	480,029	89,088	245,358

(a) Motor gasoline
(b) Distillate and residual fuel oils not reported separately until 1932.

SOURCE: U.S. Department of Interior, Bureau of Mines, Mineral Yearbooks.

BASIC PETROLEUM DATA BOOK

SECTION VIII. REFINING

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Section VIII
Table 1

Estimated Worldwide Crude Oil Refining Capacity by Area as of January 1
(Barrels per day)

Year	United States(a)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Sub Total	Communist Nations	USSR/ E. Europe(c)	Total World
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000 (b)	NA	9,119,034
1948	6,034,252	1,479,350	7,513,602	859,100	47,750	202,850	682,990	9,306,292	650,000 (b)	NA	9,956,292
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000 (b)	NA	11,109,245
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	NA	11,361,500
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000 (b)	NA	12,023,744
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100 (b)	NA	12,979,085
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	NA	14,247,520
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	NA	15,391,577
1955	8,386,044	2,566,500	10,952,544	1,184,300	68,400	613,700	2,365,900	15,184,844	1,784,000	NA	16,968,844
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	NA	17,290,336
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	NA	18,676,397
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	NA	NA	NA
1959	8,761,446	3,680,500	12,441,946	1,432,800	100,100	1,229,600	3,633,200	18,837,646	NA	NA	NA
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	NA	23,830,324
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	NA	NA	NA
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	NA	NA	NA
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	NA	NA	NA
1964	10,305,774	5,828,400	16,134,174	1,801,300	365,200	2,537,000	6,263,500	27,101,174	NA	NA	NA
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	NA	33,088,751
1966	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	NA	34,296,439
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	NA	NA	NA
1968	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	NA	41,343,204
1969	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	NA	45,194,209
1970	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	NA	48,355,873
1971	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	NA	53,183,528
1972	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	NA	56,845,268
1973	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	NA	59,282,384
1974	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	NA	64,118,536
1975	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	NA	67,551,454
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	NA	71,809,515
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	NA	75,180,964
1978	17,047,724	10,592,020	27,639,744	3,506,484	1,467,157	10,176,819	20,728,204	63,518,408	13,938,000	NA	77,456,408
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	nA	78,289,132
1980	17,988,121	10,683,671	28,671,792	3,518,080	1,666,108	10,386,375	20,243,747	64,486,102	15,346,000	NA	79,832,102
1981	18,620,520	10,716,881	29,337,401	3,729,646	1,697,658	10,554,691	20,205,799	65,525,195	16,036,500	NA	81,561,695
1982	17,889,734	10,720,055	28,609,789	3,312,152	1,761,870	10,966,825	19,444,519	64,095,155	16,533,000	NA	80,628,155
1983	16,859,337	9,873,816	26,733,153	3,685,333	1,882,105	10,902,204	17,124,989	60,327,784	16,873,000	NA	77,200,784
1984	16,137,141	9,590,962	25,728,103	3,901,082	1,879,990	10,473,079	16,231,932	58,214,186	17,200,000	NA	75,414,186
1985	15,658,769	9,457,706	25,116,475	4,052,673	2,447,156	10,393,562	15,654,622	57,664,488	17,500,000	NA	75,164,488
1986	15,458,948	8,613,690	24,072,638	4,274,255	2,520,403	10,111,652	14,071,507	55,050,455	17,500,000	NA	72,550,455
1987	15,565,513	8,676,740	24,242,253	3,862,622	2,523,563	10,400,180	13,929,325	54,957,943	17,610,000	NA	72,567,943
1988	15,915,418	8,856,748	24,772,166	4,146,222	2,630,250	10,274,302	14,127,595	55,950,535	17,610,000	NA	73,560,535
1989	15,556,700	8,839,238	24,395,938	4,334,676	2,786,987	10,064,786	13,858,624	55,441,011	17,798,135	NA	73,239,146

See notes and sources at end of table

Section VIII
Table 1a

Estimated Worldwide Crude Oil Refining Capacity by Area as of January 1
(Barrels per day)

Year	United States(a)	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Austral-Asia	Western Europe	Sub Total	Communist Nations	USSR/ E. Europe(c)	Total World
1990	15,571,966	9,005,738	24,577,704	3,968,676	2,822,723	9,981,667	14,234,454	55,585,224	17,798,135	NA	73,383,359
1991	15,558,923	9,435,935	24,994,858	5,020,826	2,871,583	12,602,985	14,223,872	59,714,124	NA	14,926,589	74,640,713
1992	15,326,556	9,459,725	24,786,281	4,992,894	2,866,103	13,195,035	14,220,408	60,060,721	NA	14,913,635	74,974,356

(a) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
(b) Estimates for U.S.S.R. only
(c) Due to the political changes in the U.S.S.R. and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries are grouped by geographic region, rather than political ideology.

SOURCE: 1947-1975: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"
1976-1991: United States: U.S. Energy Information Administration, Petroleum Refineries in the United States and
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue
1992: Oil and Gas Journal, "Worldwide Report" issue.

Section VIII
Table 2

Worldwide Crude Oil Refinery Runs and Refinery Utilization Rates(a)
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416	14,602	14,739	14,648	13,483
Utilization Rate (%)	86.8	90.9	92.1	90.8	90.8	90.4	87.1	88	90.9	84.5	83.2	88	89	86.5	84	75
Other Western Hemisphere	4,880	5,070	5,240	5,485	5,780	6,185	6,690	6,980	7,645	7,655	7,215	7,380	7,520	7,795	8,180	8,545
Utilization Rate (%)	97.2	94.9	94.5	93.2	91.9	95	93.8	92.1	93.5	84.5	75.7	76	75.1	73.6	79.6	80
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625	12,775	12,855	13,665	12,330
Utilization Rate (%)	95.5	94.6	92.7	90.6	86.9	91.3	86.6	81.9	89.5	78.3	66.3	68.2	61.2	62	67.2	60.9
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300	2,240	2,535	2,365	2,445
Utilization Rate (%)	84.7	82.7	83.9	86	81.6	86.3	70.6	75.9	78.7	80.8	63.2	70	66.9	72.3	66.7	69.5
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020	1,165	1,280	1,355	1,460
Utilization Rate (%)	92.4	88.1	80.9	72.2	70.7	90.4	80	90.4	109.7	83.3	90	76.8	80.7	87.3	81.2	87.6
Austral-Asia	2,530	2,975	3,475	4,350	4,930	5,580	6,230	6,350	7,345	7,035	6,755	7,375	7,600	7,905	8,165	7,730
Utilization Rate (%)	79.6	84.6	87.8	100.6	100.2	100.3	102.8	93.1	92.8	78.8	71.9	74.7	76.5	77.7	79.4	74.4
Subtotal	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116	45,902	47,109	48,378	45,993
Utilization Rate (%)	90.1	91.3	91.4	91.7	89.9	92.5	88.8	86.6	90.8	81.3	73.5	75.9	73.9	74.4	76.1	71.3
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575	11,930	12,875	13,230	13,320
Utilization Rate(%)	NA	NA	NA	NA	NA	103.4	99.8	101.6	102.8	105.2	104.3	93.3	91.3	92.4	89.7	86.8
USSR/ E. Europe(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Utilization Rate (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116	45,902	47,109	48,378	45,993
Utilization Rate (%)	NA	NA	NA	NA	NA	94.1	90.4	88.8	92.7	84.9	78.3	78.9	76.9	77.6	78.7	74.3

See notes and sources at end of table

Section VIII
Table 2a

Worldwide Crude Oil Refinery Runs and Refinery Utilization Rates(a)
(Thousands of barrels per day)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
United States	12,477	11,774	11,685	12,044	12,165	12,716	12,854	13,283	13,401	13,409	13,301
Utilization Rate (%)	67	65.8	69.3	76.9	77.6	82.3	83.1	83.4	85.3	85.8	84.7
Other Western Hemisphere	8,520	7,730	7,370	7,285	6,945	6,955	7,125	7,125	7,375	7,880	7,615
Utilization Rate (%)	79.5	72.1	74.7	76	74.4	73.8	74	75.3	75.6	80.6	78.5
Western Europe	10,970	10,075	9,710	9,790	9,490	10,060	9,960	10,310	10,340	11,090	12,170
Utilization Rate (%)	54.3	51.8	56.7	60.3	60.6	70.2	70.2	73.6	75.4	83.2	84.6
Middle East	2,205	2,245	2,515	2,665	2,795	2,950	2,970	3,140	3,355	3,200	2,735
Utilization Rate (%)	59.1	67.8	68.2	75.8	75.3	69	71.3	71.9	83.8	63.7	54.7
Africa	1,525	1,735	1,920	1,975	2,015	2,095	2,170	2,200	2,175	2,465	2,490
Utilization Rate (%)	89.8	98.5	102	77.8	79.2	83.1	82.5	78.3	76.7	86.2	88.8
Austral-Asia	7,560	7,160	7,120	7,310	7,370	7,465	7,490	7,745	8,175	11,120	11,755
Utilization Rate (%)	71.6	65.3	65.3	69.8	70.9	71	72.2	76.1	80.3	78.6	79.4
Subtotal	43,257	40,719	40,320	41,069	40,780	42,241	42,569	43,803	44,821	49,164	50,066
Utilization Rate (%)	66	63.5	66.8	70.7	72.2	75.3	75	77.5	80.0	79.6	80.2
Communist Nations	13,420	13,575	13,675	13,885	14,165	14,500	14,405	14,520	14,520	NA	NA
Utilization Rate(%)	83.7	82.1	81	80.7	80.9	81.9	81.9	81.6	79.8	NA	NA
USSR/ E. Europe(b)	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,120	10,460
Utilization Rate (%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	72.8	68.6
Total World	43,257	40,719	40,320	41,069	40,780	42,241	42,569	43,803	44,821	59,770	60,525
Utilization Rate (%)	68.5	67.3	69.9	73	74.5	76.9	76.9	78.3	79.8	78.9	78.3

(a) Utilization rates, obtained by dividing crude runs by crude refining capacity, were calculated by API.
(b) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region, rather than polical ideology.

SOURCE: U.S.: 1965-1975: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
U.S.: 1976-1991: Energy Information Administration, Annual Petroleum Statements and Petroluem Supply Annuals.
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

Section VIII
Table 3

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1980					1981				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)
United States	6,526	2,661	1,580	3,855	14,622	6,437	2,613	1,321	3,638	14,009
Canada	665	499	309	557	2,030	638	448	271	526	1,883
Mexico	329	245	309	371	1,254	360	270	365	297	1,292
Central and South America (a)	920	1,134	2,011	1,151	5,216	943	1,060	1,773	1,086	4,862
Western Europe	2,477	4,112	3,592	3,060	13,241	2,368	3,649	3,217	2,973	12,207
Middle East	325	545	890	1,076	2,836	304	544	837	996	2,681
Africa	286	394	433	378	1,491	297	397	434	371	1,499
Asia	1,473	1,864	3,691	3,092	10,120	1,410	2,017	2,917	3,355	9,699
Eastern Europe and U.S.S.R.	2,080	2,962	3,478	3,665	12,185	2,087	2,981	3,490	3,493	12,051
Total World	15,081	14,416	16,293	17,205	62,995	14,844	13,979	14,625	16,735	60,183

See notes and sources at end of table

World Refinery Output by Area for Major Petroleum Products
(Thousands of Barrels Per Day)

	1982					1983				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)
United States	6,358	2,606	1,070	3,357	13,391	6,360	2,456	852	3,470	13,138
Canada	619	396	208	416	1,639	597	388	175	406	1,566
Mexico	346	235	350	371	1,302	353	224	350	402	1,329
Central and South America (a)	940	988	1,720	1,063	4,711	963	1,034	1,511	1,153	4,661
Western Europe	2,456	3,530	2,896	2,307	11,187	2,529	3,434	2,630	2,398	10,991
Middle East	324	648	925	892	2,789	319	681	925	958	2,883
Africa	317	454	507	434	1,712	324	505	547	461	1,837
Asia	1,439	2,200	2,781	2,723	9,143	1,544	2,242	2,712	2,711	9,209
Eastern Europe and U.S.S.R.	2,158	3,023	3,437	3,602	12,220	2,271	3,090	3,476	3,441	12,278
Total World	14,957	14,080	13,894	15,165	58,094	15,260	14,054	13,178	15,400	57,892

See notes and sources at end of table

Section VIII
Table 3b

World Refinery Output by Area for Major Petroleum Products (Thousands of Barrels Per Day)

	1984					1985				
	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)	Gasoline(b)	Distillate	Residual	Other(c)	Total (d)
United States	6,478	2,680	891	3,630	13,679	6,441	2,687	882	3,740	13,750
Canada	586	410	161	548	1,705	589	401	127	691	1,807
Mexico	363	266	375	479	1,483	360	292	398	523	1,572
Central and South America (a)	1,027	1,075	1,417	1,205	4,723	908	1,049	1,245	1,175	4,379
Western Europe	2,624	3,609	2,537	3,170	11,939	2,684	3,574	2,306	3,128	11,692
Middle East	401	805	970	1,122	3,296	427	952	1,034	1,065	3,479
Africa	322	495	536	527	1,879	351	515	537	494	1,896
Asia	1,612	2,325	2,623	2,979	9,540	1,659	2,417	2,343	2,966	9,385
Eastern Europe and U.S.S.R.	2,153	3,043	3,452	3,426	12,075	2,172	2,984	3,426	3,184	11,766
Total World	15,566	14,708	12,962	17,086	60,319	15,591	14,871	12,298	16,966	59,726

See notes and sources at end of table

[illegible] Output by Area for Major [illegible] Products
([illegible] Barrels Per Day)

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
United States	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]
Canada	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mexico	[illegible]	[illegible]	468	446	1,526	[illegible]	[illegible]	456	[illegible]	[illegible]
Central and South America (a)	892	1,062	1,178	1,217	4,349	896	1,093	1,109	1,166	4,264
Western Europe	2,772	3,902	2,450	2,905	12,029	2,860	3,740	2,410	2,996	12,006
Middle East	493	1,022	1,301	1,193	4,009	527	1,110	1,317	1,015	3,969
Africa	317	504	600	496	1,917	333	543	618	537	2,031
Asia	1,694	2,570	2,292	3,030	9,586	1,735	2,651	2,317	3,006	9,709
Eastern Europe and U.S.S.R.	2,247	2,840	4,219	3,089	12,395	2,279	2,838	4,017	3,154	12,288
Total World	16,087	15,333	13,512	16,936	61,868	16,410	15,348	13,251	17,054	62,063

See notes and sources at end of table

United States										
Canada										
Mexico										
Central and South America (a)	916	1,147	1,142	1,167	4,372	917	1,148	1,180	1,178	4,423
Western Europe	2,968	3,903	2,365	3,243	12,479	3,001	3,853	2,388	3,382	12,624
Middle East	579	1,190	1,417	995	4,181	611	1,288	1,508	1,082	4,489
Africa	341	582	624	555	2,102	360	581	639	578	2,158
Asia	1,815	2,766	2,491	3,013	10,085	1,926	2,916	2,608	3,131	10,581
Eastern Europe and U.S.S.R.	2,340	2,889	3,776	2,383	11,388	1,977	3,098	3,834	2,548	11,457
Total World	16,889	15,980	13,301	16,534	62,704	16,747	16,471	13,683	17,033	63,934

(a) *Includes Cuba.*
(b) *For 1980 through 1985, includes motor gasoline and aviation gasoline. Beginning in 1986, aviation gasoline is included with "other"*
(c) *Includes other finished products and unfinished oils requiring further processing. These include asphalt, coke, aviation gasoline, naphthas, paraffin wax, petrochemical feedstocks, unfinished oils, white spirits, etc.*
(d) *Refinery Fuel and loss are included in the output of the individual petroleum products.*

SOURCE: U.S. Energy Information Administration, International Energy Annuals.

Section VIII
Table 4

United States Crude Oil Refining Capacity as of January 1(a)

Year	Number of Refineries			Crude Oil Throughput Capacity(b)		
	Operating	Shutdown(d)	Total	Operating	Operable Shutdown	Inoperable Shutdown(e)
1947	361	38	399	5,336,399	233,083 (c)	
1948	352	38	390	5,825,566	208,686 (c)	
1949	336	39	375	6,230,505	208,490 (c)	
1950	320	47	367	6,222,998	473,302 (c)	
1951	325	32	357	6,701,815	261,829 (c)	
1952	327	23	350	7,161,366	171,519 (c)	
1953	315	28	343	7,481,701	138,019	18,941
1954	308	29	337	7,782,103	201,874	22,920
1955	296	30	326	8,069,154	316,890	34,586
1956	294	24	318	8,380,801	201,835	49,754
1957	298	21	319	8,808,841	262,856	51,977
1958	289	29	318	8,939,907	418,400	49,400
1959	291	22	313	9,450,741	310,705	58,400
1960	290	20	310	9,543,329	299,295	58,800
1961	289	22	311	9,629,685	368,888	11,500
1962	287	24	311	9,812,248	220,799	72,100
1963	287	21	308	9,814,791	196,130	107,400
1964	282	22	304	10,063,164	242,610	79,600
1965	273	27	300	10,161,311	258,540	354,744
1966	267	19	286	10,171,159	222,680	98,900
1967	260	21	281	10,412,447	245,960	101,200
1968	270	21	291	11,172,694	180,710	179,450
1969	264	20	284	11,575,829	126,480	37,200
1970	262	19	281	11,882,393	138,880	53,050
1971	253	26	279	12,658,248	201,980	159,750
1972	250	32	282	13,034,818	257,650	145,000
1973	253	28	281	13,482,909	188,475	132,200
1974	257	27	284	14,220,316	141,220	127,900
1975	262	28	290	14,696,750	263,960	208,100
1976	265	22	287	14,867,529	369,092	190,900
1977	273	18	291	15,861,735	536,637	211,500
1978	290	12	302	16,793,724	254,000	182,223
1979	301	10	311	17,147,875	293,010	103,500
1980	311	8	319	17,612,652	376,469	N.A.
1981	315	9	324	18,051,260	569,260	N.A.
1982	254	47	301	16,103,579	1,786,155	N.A.
1983	233	25	258	14,960,647	1,898,690	N.A.
1984	214	33	247	14,837,685	1,299,456	N.A.
1985	199	24	223	14,360,583	1,298,186	N.A.
1986	192	24	216	14,638,507	820,441	N.A.
1987	195	24	219	14,940,463	625,050	N.A.
1988	195	18	213	15,017,968	897,450	N.A.
1989	193	11	204	15,011,824	643,050	N.A.
1990	194	11	205	15,062,616	509,350	N.A.

See notes and sources at end of table

United States Crude Oil Refining Capacity as of January 1(a)

	Number of Refineries			Crude Oil Throughput Capacity(b)		
Year	Operating	Shutdown(d)	Total	Operating	Operable Shutdown	Inoperable Shutdown(e)
1991	184	18	202	14,958,777	716,850	N.A.
1992	183	16	199	14,965,480	730,675	N.A.

(a) Does not include Puerto Rico refineries
(b) Barrels per calendar day
(c) Not identified separately prior to 1953
(d) Figures beginning with 1980 are for operable shutdown only
(e) Facilities inoperable, needing extensive reconditioning

SOURCE: 1947-1975: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual
1976-1981: U.S. Energy Information Administration, "Petroleum Refineries in the Unite States and U.S. Territories" Annual
1982-1992: U.S. Energy Information Administration, PEtroleum Supply Annuals

Percentage Yields of Refined Petroleum Products from Crude Oil(a) in the United States-Annually 1964-1991

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4	44.1	43.0	44.5
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6	6.6	6.9	7.4
Ethane (including Ethylene)	(b)	(b)	(b)	(b)	(b)	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	(b)
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3	2.3	2.3	2.4
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2	1.0	1.3	1.0
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4	21.4	21.5	19.7
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0	11.3	11.5	11.7
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6	4.1	4.7	5.1
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6	0.7	0.6	0.7
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2	1.3	1.3	1.3
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5	2.5	2.6	2.7
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9	3.2	3.1	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	-	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6	3.7	3.8	4.0
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0	0.9	0.8	0.8
Shortage(c)	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6	-3.4	-3.6	-4.4
TOTAL(d)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See notes and sources at end of table

Percentage Yields of Refined Petroleum Products from Crude Oil(a) in the United States-Annually 1964-1991

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Gasoline	44.8	46.4	47.6	46.7	45.8	45.9	46.6	46.2	45.9	45.8	45.9
Jet Fuel	7.6	8.1	8.5	9.1	9.6	9.8	10.0	10.0	10.1	10.7	10.3
Ethane (including Ethylene)	0.1	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Liquefied Gases	2.4	2.2	2.7	2.9	3.1	3.2	3.4	3.6	4.0	3.6	3.8
Kerosine	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.3	0.3
Distillate Fuel Oil	20.5	21.5	20.5	21.5	21.6	21.2	20.5	20.8	20.8	20.9	21.3
Residual Fuel Oil	10.4	8.8	7.1	7.1	7.1	6.7	6.6	6.7	6.9	6.8	6.7
Petrochemical Feedstocks	4.7	3.6	3.3	2.8	2.8	3.1	2.9	2.4	2.5	2.9	2.9
Special Naphthas	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Lubricants	1.3	1.2	1.2	1.3	1.2	1.2	1.3	1.2	1.2	1.2	1.1
Wax	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Coke	3.1	3.4	3.5	3.5	3.7	3.8	3.8	4.0	3.9	3.9	4.1
Asphalt	2.7	2.7	3.1	3.1	3.2	3.1	3.3	3.2	3.1	3.2	3.1
Road Oil	-	-	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)
Still Gas	4.3	4.4	4.6	4.5	4.7	4.9	4.8	4.9	4.9	4.8	4.7
Miscellaneous	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Shortage(c)	-4.0	-4.4	-4.1	-4.4	-4.5	-4.7	-4.8	-4.8	-4.8	-4.9	-5.1
TOTAL(d)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Other unfinished oils added to crude oil in computing yield
(b) Included with liquefied gases
(c) Processing Gain (-) or Loss (+).
(d) Totals may not add due to independent rounding
(e) Included in asphalt

SOURCE: 1964-1980--U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991--U.S. Energy Information Administration, Petroleum Supply Annuals

United States Crude Oil Refinery Runs by P.A.D. District-Domestic vs Foreign
(Thousands of barrels per day)

Year	District I		District II		District III		District IV		District V		Total	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1947	648	265	1,312	-	1,889	2	133	-	826	-	4,808	267
1948	640	326	1,418	-	2,154	13	151	-	895	-	5,258	339
1949	486	374	1,404	-	1,973	46	165	-	876	3	4,904	423
1950	545	459	1,594	-	2,053	23	185	-	880	-	5,257	482
1951	641	477	1,796	1	2,398	10	215	-	947	10	5,997	498
1952	618	517	1,845	3	2,463	12	223	-	958	31	6,107	563
1953	601	552	1,949	7	2,601	8	235	-	975	71	6,361	638
1954	549	585	1,953	7	2,594	12	238	-	970	51	6,304	655
1955	530	633	2,119	18	2,832	30	255	-	968	95	6,704	776
1956	559	669	2,224	54	3,010	32	268	(a)	943	178	7,004	933
1957	640	656	2,219	60	2,898	24	273	(a)	900	249	6,930	989
1958	555	644	2,224	71	2,760	43	266	(a)	892	188	6,697	946
1959	574	641	2,340	59	2,922	27	290	(a)	902	238	7,028	965
1960	550	667	2,349	66	2,978	6	285	(a)	891	275	7,053	1,014
1961	573	650	2,347	86	3,020	6	284	(a)	910	308	7,134	1,050
1962	546	668	2,366	97	3,174	4	303	(a)	898	354	7,287	1,123
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195
1965	489	711	2,533	112	3,506	(a)	317	13	957	405	7,802	1,241
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120
1968	596	707	2,744	214 (b)	4,116	2	339	27	1,243	324	9,038	1,274
1969	560	749	2,773	240 (b)	4,263	(a)	351	35	1,267	391	9,214	1,415
1970	706	584	2,844	310 (b)	4,357	-	345	47	1,297	380	9,549	1,321
1971	649	682	2,853	377 (b)	4,438	54	360	45	1,239	503	9,539	1,661
1972	347	971	2,850	461 (b)	4,741	75	360	37	1,193	661	9,491	2,205
1973	237	1,264	2,774	711 (b)	4,656	393	372	44	1,167	808	9,206	3,225
1974	236	1,173	2,654	679 (b)	4,317	786	376	44	1,098	770	8,681	3,452
1975	166	1,242	2,637	775 (b)	4,078	1,182	380	45	1,086	851	8,347	4,095
1976	170	1,416	2,611	989 (b)	3,957	1,760	391	50	1,038	1,034	8,167	5,249
1977	136	1,538	2,386	1,393	3,886	2,460	426	54	1,199	1,124	8,033	6,569
1978	205	1,513	2,392	1,416	3,802	2,636	433	54	1,660	627	8,492	6,246
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379
1980	221	1,233	2,098	1,198	3,645	2,298	394	47	1,903	445	8,261	5,221
1981 (c)	205	1,126	2,181	785	3,630	1,951	390	33	1,900	300	8,306	4,195
1982	211	982	2,161	621	3,876	1,522	374	41	1,888	191	8,510	3,357
1983	211	827	2,174	570	3,909	1,509	380	44	1,883	227	8,556	3,177
1984	174	936	2,221	536	3,955	1,622	401	32	2,061	214	8,812	3,341
1985	152	767	2,114	590	4,102	1,365	393	41	2,124	194	8,884	2,958
1986	144	1,030	2,073	753	3,848	2,143	370	63	2,273	229	8,707	4,217
1987	117	1,136	2,034	812	3,536	2,480	371	66	2,319	199	8,376	4,693
1988	116	1,184	1,998	918	3,307	2,906	384	67	2,428	209	8,233	5,284
1989	74	1,207	1,869	1,039	2,946	3,430	387	71	2,402	262	7,679	6,010

See notes and sources at end of table

Section VIII
Table 6a

United States Crude [illegible] Foreign

Year	District I		District II		District III		District IV		District V		Total	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
1990	62	1,227	1,898	1,113	2,773	3,530	388	72	2,415	231	7,536	6,172
1991	43	1,203	1,889	1,164	2,825	3,425	383	72	2,423	189	7,563	6,054

(a) Less than 1000 barrels daily
(b) Includes some Athabasca hydrocarbons
(c) Beginning with 1981, figures are for refinery receipts of crude oil

SOURCE: 1947-1975 Bureau of Mines, Annual Petroleum Statements
1976-1980 U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual
1981-1982--U.S. Energy Information Administration, Petroleum Supply Annual
1983-1991--U.S. Energy Information Administration, Petroleum Supply Annual, Refinery Capacity

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1988)

District and State	Number of Operable Refineries			Crude Capacity: Barrels Per Calendar Day		Crude Capacity: Barrels Per Stream Day		Charge Capacity (Barrels Per Stream Day)						
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle	Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Florida	1	0	1	0	17,000	0	20,000	11,390	0	0	0	0	0	0
Georgia	2	1	1	5,655	28,000	6,000	29,000	0	0	0	0	0	0	3,153
New Jersey	6	6	0	434,400	0	456,400	0	244,100	21,500	251,000	37,000	77,500	0	284,500
New York	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	2	1	1	3,000	10,000	3,500	12,000	0	0	0	0	0	0	0
Pennsylvania	8	8	0	727,000	0	759,500	0	319,300	0	259,300	12,300	207,690	51,000	475,020
Virginia	2	2	0	53,400	0	55,550	0	29,000	13,500	27,000	2,000	9,500	0	25,000
West Virginia	2	2	0	16,808	0	17,500	0	9,675	0	0	0	3,750	4,440	0
PAD District 1 Total	25	22	3	1,422,113	55,000	1,493,450	61,000	735,465	81,000	602,300	56,300	354,440	74,440	897,673
Illinois	7	7	0	854,700	75,000	898,600	80,000	337,600	120,700	339,000	7,400	280,300	66,500	548,100
Indiana	5	4	1	422,900	1,000	437,100	2,000	204,200	27,500	166,000	6,000	94,500	0	232,800
Kansas	8	6	2	322,400	30,400	339,483	32,000	119,650	53,000	124,500	10,000	99,300	3,190	188,300
Kentucky	3	2	1	218,900	600	226,300	1,000	92,000	57,600	100,000	0	53,500	0	170,300
Michigan	3	3	0	113,500	0	120,000	0	38,500	0	45,000	1,000	36,500	0	55,300
Minnesota	2	2	0	222,143	0	237,220	0	137,000	54,000	78,000	1,000	61,500	0	209,700
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	17,000
Ohio	4	4	0	488,100	0	507,000	0	185,000	31,200	177,000	25,300	161,600	87,000	190,000
Oklahoma	6	6	0	381,500	0	398,700	0	129,000	27,000	131,000	6,400	90,000	5,000	170,000
Tennessee	1	1	0	60,000	0	65,000	0	10,000	0	30,000	0	10,000	0	33,500
Wisconsin	1	1	0	32,000	0	34,000	0	20,500	0	9,700	1,000	8,000	0	14,800
PAD District II Total	41	37	4	3,174,143	107,000	3,323,403	115,000	1,273,450	371,000	1,226,200	63,300	907,300	161,690	1,829,800
Alabama	6	6	0	180,600	0	187,300	0	50,000	12,000	0	0	32,000	0	63,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	9,000	0	18,500
Louisiana	23	20	3	2,262,207	359,000	2,358,900	414,875	1,157,700	563,500	923,800	35,800	520,500	149,000	1,164,400
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	72,000	9,000	95,800	68,000	253,800
New Mexico	4	4	0	75,600	0	84,607	0	13,900	0	27,100	6,100	19,200	0	29,200
Texas	36	32	4	3,902,900	236,100	4,170,400	247,000	1,843,700	377,900	1,602,500	135,200	1,134,200	276,000	3,082,450
PAD District III Total	78	71	7	6,841,107	602,100	7,245,107	669,875	3,362,550	1,023,900	2,643,900	186,875	1,810,700	493,000	4,611,650
Colorado	2	2	0	76,500	0	80,000	0	23,000	0	23,500	1,000	17,500	0	27,500
Montana	5	4	1	130,450	13,400	135,000	14,000	53,250	9,900	52,100	6,600	37,800	4,900	121,400
Utah	6	6	0	154,500	0	160,000	0	45,380	8,500	54,800	10,600	28,550	2,000	39,250
Wyoming	6	5	1	164,555	350	170,300	400	75,000	9,000	62,000	12,200	32,250	0	48,800
PAD District IV Total	19	17	2	526,005	13,750	545,300	14,400	196,630	27,400	192,400	30,400	116,100	6,900	236,950
Alaska	6	6	0	222,700	0	238,260	0	6,000	0	0	0	12,000	9,000	0
California	33	31	2	2,259,600	119,600	2,395,509	132,800	1,329,150	496,000	637,150	22,050	558,950	389,100	1,387,430
Hawaii	2	2	0	115,900	0	118,000	0	58,000	13,000	22,000	3,000	12,000	15,900	15,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	451,900	0	470,754	0	218,500	68,000	100,000	19,500	119,800	52,000	190,800
PAD District V Total	50	48	2	3,054,600	119,600	3,227,223	132,800	1,630,150	577,000	759,150	44,550	702,750	466,000	1,593,730
United States Total	213	195	18	15,017,968	897,450	15,834,483	993,075	7,198,245	2,080,300	5,423,950	381,425	3,891,290	1,202,030	9,169,803

See notes and sources at end of table

Section VIII
Table 7a

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1989)

District and State	Number of Operable Refineries			Crude Capacity: Barrels Per Calendar Day		Crude Capacity: Barrels Per Stream Day		Charge Capacity (Barrels Per Stream Day)						
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle	Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Georgia	2	1	1	5,079	28,000	6,000	29,000	0	0	0	0	0	0	3,000
New Jersey	6	6	0	400,000	0	434,000	0	244,100	21,500	251,000	37,000	77,500	17,000	284,500
New York	1	1	0	41,850	0	45,000	0	27,000	0	0	0	0	0	0
North Carolina	2	1	1	3,000	10,000	3,500	12,000	0	0	0	0	0	0	0
Pennsylvania	8	8	0	734,315	0	770,500	0	319,300	0	238,300	6,800	208,400	51,000	479,620
Virginia	2	2	0	54,700	0	57,000	0	29,000	13,500	27,000	2,000	9,750	0	25,250
West Virginia	2	2	0	16,808	0	17,500	0	8,175	0	0	0	5,300	0	0
PAD District 1 Total	24	22	2	1,395,752	38,000	1,483,500	41,000	722,575	81,000	581,300	50,800	356,950	87,000	902,370
Illinois	6	6	0	889,200	0	942,000	0	349,400	124,900	343,000	12,000	292,300	67,500	588,100
Indiana	5	4	1	428,900	1,500	441,600	2,500	233,200	28,500	167,000	6,000	99,500	0	233,700
Kansas	8	8	0	349,300	0	370,483	0	124,650	53,000	124,500	9,000	97,500	3,190	215,500
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	53,500	0	182,300
Michigan	3	3	0	113,500	0	121,000	0	38,000	0	45,000	1,000	33,000	0	60,300
Minnesota	2	2	0	247,100	0	264,220	0	167,000	54,000	78,000	1,000	55,500	0	221,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	16,600
Ohio	4	4	0	484,600	0	507,000	0	185,000	30,700	176,000	17,500	161,600	87,200	194,500
Oklahoma	6	6	0	381,500	0	399,200	0	142,000	27,000	132,500	6,400	91,100	4,500	158,000
Tennessee	1	1	0	58,000	0	60,000	0	12,000	0	30,000	0	10,000	0	35,000
Wisconsin	1	1	0	32,000	0	34,000	0	20,500	0	12,600	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,261,000	1,500	3,425,803	2,500	1,363,750	375,700	1,234,600	59,100	914,100	162,390	1,919,800
Alabama	5	4	1	144,100	9,500	149,300	10,000	50,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	9,000	0	18,500
Louisiana	22	20	2	2,286,147	341,000	2,396,900	394,500	1,144,700	545,500	846,800	12,300	524,200	149,000	1,246,275
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	72,000	9,000	96,000	68,000	254,000
New Mexico	4	4	0	75,600	0	84,607	0	13,900	0	27,100	6,100	19,200	0	29,200
Texas	34	32	2	3,896,950	182,050	4,133,500	192,800	1,777,700	373,800	1,583,500	128,300	1,143,500	296,000	3,103,150
PAD District III Total	74	69	5	6,822,597	539,550	7,208,207	605,300	3,283,550	1,001,800	2,547,900	156,475	1,817,900	513,000	4,710,425
Colorado	3	2	1	72,000	15,200	76,000	16,000	33,000	4,200	23,500	1,000	19,900	5,000	29,900
Montana	4	4	0	130,650	7,800	135,200	8,000	53,350	7,700	52,170	6,620	35,530	4,900	118,270
Utah	6	6	0	154,500	0	160,000	0	45,500	8,500	49,400	9,600	28,550	0	39,250
Wyoming	5	5	0	169,725	0	175,750	0	75,000	9,000	62,000	12,200	32,250	0	48,800
PAD District IV Total	18	17	1	526,875	23,000	546,950	24,000	206,850	29,400	187,070	29,420	116,230	9,900	236,220
Alaska	6	6	0	215,000	0	232,460	0	6,000	0	0	0	12,000	9,000	0
California	32	31	1	2,206,200	29,100	2,347,689	32,120	1,347,000	502,000	648,950	14,050	559,900	388,500	1,463,280
Hawaii	2	2	0	126,500	0	130,000	0	58,000	13,000	22,000	3,000	12,000	15,900	3,500
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	6	1	453,400	11,900	471,000	12,754	219,000	70,000	102,500	13,000	121,800	52,000	204,300
PAD District V Total	49	47	2	3,005,600	41,000	3,185,849	44,874	1,648,500	585,000	773,450	30,050	705,700	465,400	1,671,080
United States Total	204	193	11	15,011,824	643,050	15,850,309	717,674	7,225,225	2,072,900	5,324,320	325,845	3,910,880	1,237,690	9,439,895

See notes and sources at end of table

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1990)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	150,000	0	95,000	46,000	65,000	5,000	56,000	19,000	110,000
Georgia	2	1	1	5,079	28,000	6,000	30,000	0	0	0	0	0	0	3,000
New Jersey	6	6	0	458,900	0	481,400	0	257,100	21,500	256,000	37,000	77,500	17,000	284,500
New York	1	1	0	41,850	0	45,000	0	28,000	0	0	0	0	0	0
North Carolina	1	1	0	3,000	0	3,000	0	0	0	0	0	0	0	0
Pennsylvania	8	8	0	739,315	0	770,500	0	319,300	0	238,000	6,800	208,400	51,000	474,620
Virginia	2	2	0	56,700	0	60,000	0	29,000	13,500	27,500	2,000	10,200	0	26,500
West Virginia	2	2	0	31,700	0	32,500	0	8,600	0	0	0	5,300	4,400	4,000
PAD District 1 Total	23	22	1	1,476,544	28,000	1,548,400	30,000	737,000	81,000	586,500	50,800	357,400	91,400	902,620
Illinois	6	6	0	882,600	0	937,000	0	349,400	126,100	343,000	10,000	288,300	67,500	582,600
Indiana	5	4	1	429,900	1,250	443,100	2,500	232,050	27,500	166,121	4,200	98,348	0	255,100
Kansas	8	8	0	351,700	0	373,483	0	124,650	52,500	123,800	9,000	93,800	3,190	211,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	53,500	0	182,300
Michigan	3	3	0	117,100	0	129,000	0	38,000	0	47,000	1,000	33,000	0	65,800
Minnesota	2	2	0	252,100	0	264,220	0	167,000	60,000	78,000	1,000	55,500	0	221,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	5,200	12,100	0	16,600
Ohio	4	4	0	484,600	0	507,000	0	185,000	30,700	176,000	17,500	161,600	87,200	194,500
Oklahoma	6	6	0	387,500	0	410,200	0	147,000	27,000	140,500	6,400	94,600	5,000	168,500
Tennessee	1	1	0	60,000	0	62,000	0	12,000	0	30,000	0	10,000	0	35,000
Wisconsin	1	1	0	33,000	0	35,000	0	20,500	0	12,600	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,275,400	1,250	3,447,303	2,500	1,367,600	381,400	1,243,021	55,300	908,748	162,890	1,947,200
Alabama	4	3	1	140,100	9,500	144,300	10,000	50,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	51,400	7,000	53,000	8,000	23,300	0	18,500	775	11,200	0	28,500
Louisiana	22	19	3	2,241,847	349,000	2,367,400	408,500	1,152,200	580,700	891,800	11,500	536,100	157,000	1,216,975
Mississippi	6	6	0	368,400	0	390,900	0	273,950	70,500	74,000	7,000	96,000	68,000	254,000
New Mexico	4	4	0	77,800	0	84,207	0	13,900	0	27,700	6,100	21,050	1,000	29,800
Texas	36	34	2	3,856,100	62,250	4,093,300	79,100	1,733,200	367,000	1,613,500	125,500	1,130,700	312,500	3,165,750
PAD District III Total	75	69	6	6,735,647	427,750	7,133,107	505,600	3,246,550	1,030,200	2,625,500	150,875	1,821,050	538,500	4,754,325
Colorado	3	2	1	76,000	15,200	85,000	16,000	43,000	4,200	25,500	1,000	22,400	5,000	34,200
Montana	4	4	0	139,650	0	145,500	0	53,300	7,700	55,170	6,225	37,680	4,900	119,240
Utah	6	6	0	154,500	0	160,000	0	46,980	8,500	54,800	10,600	30,500	2,400	41,200
Wyoming	5	5	0	169,725	0	175,750	0	76,000	9,000	62,000	12,200	32,250	0	52,300
PAD District IV Total	18	17	1	539,875	15,200	566,250	16,000	219,280	29,400	197,470	30,025	122,830	12,300	246,940
Alaska	6	6	0	229,850	0	241,700	0	6,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	9,600	0	10,000	0	3,000	0	0	0	0	0	0
California	32	30	2	2,169,000	37,150	2,304,200	39,600	1,315,600	501,200	652,900	14,000	535,700	398,500	1,460,040
Hawaii	2	2	0	131,500	0	135,000	0	71,250	13,000	20,000	3,000	12,000	15,000	15,800
Nevada	1	1	0	4,500	0	4,700	0	2,500	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	490,700	0	522,254	0	260,500	72,000	115,500	10,000	126,500	54,000	210,000
PAD District V Total	50	48	2	3,035,150	37,150	3,217,854	39,600	1,674,850	586,200	788,400	27,000	686,200	476,500	1,685,840
United States Total	205	194	11	15,062,616	509,350	15,912,914	593,700	7,245,280	2,108,200	5,440,891	314,000	3,896,228	1,281,590	9,536,925

See notes and sources at end of table

Section VIII
Table 7c

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1991)

	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
District and State	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	152,000	0	95,000	45,000	67,000	5,000	54,000	18,000	123,000
Georgia	2	1	1	5,540	28,000	6,000	30,000	0	0	0	0	0	0	2,940
New Jersey	6	4	2	334,500	124,400	352,000	132,400	258,900	21,000	256,000	37,000	77,500	17,000	289,000
New York	1	1	0	41,850	0	45,000	0	28,000	0	0	0	0	0	0
North Carolina	1	1	0	3,000	0	3,000	0	0	0	0	0	0	0	0
Pennsylvania	8	8	0	744,315	0	772,500	0	320,250	0	247,000	6,800	200,400	51,000	471,820
Virginia	2	2	0	56,700	0	60,000	0	29,000	14,000	27,500	2,000	10,200	0	26,500
West Virginia	1	1	0	12,500	0	12,500	0	6,000	0	0	0	3,700	4,440	4,000
PAD District 1 Total	22	19	3	1,338,405	152,400	1,403,000	162,400	737,150	80,000	597,500	50,800	345,800	90,440	917,260
Illinois	7	7	0	937,600	0	994,000	0	383,900	126,300	378,000	10,000	302,300	67,500	617,600
Indiana	5	4	1	429,900	1,250	443,100	2,500	235,450	28,000	173,000	4,200	99,800	0	267,800
Kansas	8	8	0	351,700	0	374,483	0	124,650	52,500	123,800	9,000	93,800	3,190	211,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,600	100,000	0	46,000	0	172,300
Michigan	3	3	0	118,600	0	129,000	0	38,000	0	47,000	1,000	33,000	0	61,800
Minnesota	2	2	0	267,100	0	279,220	0	182,000	60,000	83,000	1,000	59,500	0	227,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	3,600	12,100	0	19,100
Ohio	4	4	0	457,100	0	477,000	0	172,000	31,700	174,000	17,500	162,600	87,200	196,500
Oklahoma	6	6	0	395,500	0	416,200	0	147,000	26,500	149,000	5,000	101,500	5,000	177,500
Tennessee	1	1	0	60,000	0	62,000	0	12,000	0	30,000	0	10,000	0	30,000
Wisconsin	1	1	0	33,200	0	35,000	0	20,500	0	11,000	1,000	8,000	0	14,800
PAD District II Total	40	39	1	3,327,600	1,250	3,496,303	2,500	1,407,500	382,600	1,294,800	52,300	928,600	162,890	1,995,400
Alabama	3	2	1	113,500	26,600	116,300	28,000	45,000	12,000	0	0	26,000	0	59,300
Arkansas	3	3	0	53,900	5,800	57,000	6,000	23,300	0	19,100	775	11,200	0	30,000
Louisiana	22	19	3	2,286,707	340,500	2,388,900	395,000	1,132,200	580,700	895,500	11,500	530,300	172,000	1,267,500
Mississippi	6	5	1	362,400	6,000	383,000	7,900	274,775	83,500	80,000	7,000	96,000	68,000	254,000
New Mexico	4	3	1	74,800	4,000	79,107	6,100	13,900	0	33,800	4,500	21,050	1,000	29,800
Texas	34	32	2	3,875,500	57,250	4,097,000	64,500	1,718,900	373,800	1,642,500	125,500	1,147,600	313,500	3,176,650
PAD District III Total	72	64	8	6,766,807	440,150	7,121,307	507,500	3,208,075	1,050,000	2,670,900	149,275	1,832,150	554,500	4,817,250
Colorado	3	2	1	76,000	15,200	85,000	16,000	43,000	4,200	27,500	1,000	22,900	5,000	35,700
Montana	4	4	0	139,650	0	145,500	0	53,450	7,700	55,900	6,250	37,730	4,900	119,340
Utah	6	6	0	154,500	0	160,000	0	46,980	8,500	54,800	10,600	30,500	2,400	41,200
Wyoming	5	5	0	169,725	0	175,750	0	73,000	9,000	62,000	12,500	32,350	0	52,500
PAD District IV Total	18	17	1	539,875	15,200	566,250	16,000	216,430	29,400	200,200	30,350	123,480	12,300	248,740
Alaska	6	6	0	239,540	0	254,700	0	6,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	10,000	0	12,000	0	7,000	0	0	0	0	0	0
California	32	29	3	2,094,150	91,450	2,217,400	98,700	1,347,600	530,900	656,700	14,000	542,300	408,800	1,475,180
Hawaii	2	2	0	146,300	0	150,000	0	74,250	13,000	20,000	0	13,000	18,000	3,500
Nevada	1	0	1	0	4,500	0	4,700	0	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	6	1	496,100	11,900	531,000	12,754	255,500	72,000	118,500	7,000	128,500	52,000	219,000
PAD District V Total	50	45	5	2,986,090	107,850	3,165,100	116,154	1,706,350	615,900	795,200	21,000	695,800	487,800	1,697,680
United States Total	202	184	18	14,958,777	716,850	15,751,960	804,554	7,275,505	2,157,900	5,558,600	303,725	3,925,830	1,307,930	9,676,330

See notes and sources at end of table

Section VIII
Table 7d

Number and Capacity of United States Petroleum Refineries

(As of January 1, 1992)

District and State	Number of Operable Refineries			Crude Capacity				Charge Capacity (Barrels Per Stream Day)						
				Barrels Per Calendar Day		Barrels Per Stream Day		Vacuum Distillation	Thermal Operation	Catalytic Cracking (Fresh)	Catalytic Cracking (Recycled	Catalytic Reforming	Catalytic Hydrocracking	Catalytic Hydrotreating
	Total	Operating	Idle(a)	Operating	Idle	Operating	Idle							
Delaware	1	1	0	140,000	0	152,000	0	95,000	45,000	67,000	5,000	52,000	18,000	123,000
Georgia	2	1	1	5,540	28,000	6,000	30,000	0	0	0	0	0	0	2,940
New Jersey	6	5	1	454,500	44,400	482,000	47,400	255,200	21,000	260,000	37,000	77,500	17,000	289,000
New York	1	0	1	0	41,850	0	45,000	27,000	0	0	0	0	0	0
North Carolina	1	0	1	0	3,000	0	3,200	0	0	0	0	0	0	0
Pennsylvania	8	7	1	733,615	6,700	765,500	7,000	323,250	0	259,000	6,800	199,120	51,000	475,300
Virginia	2	2	0	59,100	0	63,600	0	29,000	14,000	27,500	2,000	10,200	0	26,500
West Virginia	2	2	0	16,000	0	17,500	0	8,500	0	0	0	5,200	4,440	5,500
PAD District 1 Total	23	18	5	1,408,755	123,950	1,486,600	132,600	737,950	80,000	613,500	50,800	344,020	90,440	922,240
Illinois	7	7	0	952,600	0	1,004,000	0	376,900	126,300	385,000	3,000	300,300	67,500	601,100
Indiana	4	4	0	449,900	0	463,100	0	234,200	28,000	173,500	4,200	105,000	0	278,100
Kansas	8	7	1	327,300	26,400	349,023	27,460	130,650	52,500	120,800	9,000	94,300	3,190	209,000
Kentucky	2	2	0	218,900	0	226,300	0	92,000	57,250	100,000	0	46,000	0	182,300
Michigan	3	3	0	118,600	0	129,000	0	38,000	0	46,500	1,000	33,000	0	62,300
Minnesota	2	2	0	267,100	0	279,220	0	182,000	61,000	88,000	0	59,500	0	225,000
North Dakota	1	1	0	58,000	0	60,000	0	0	0	26,000	3,600	12,100	0	19,100
Ohio	4	4	0	462,100	0	477,000	0	172,000	31,700	174,000	17,500	162,600	87,200	196,500
Oklahoma	6	6	0	398,500	0	419,200	0	147,000	27,000	150,000	5,000	101,500	5,000	186,000
Tennessee	1	1	0	76,000	0	78,000	0	12,000	0	38,000	0	14,000	0	35,000
Wisconsin	1	1	0	33,200	0	35,000	0	20,000	0	11,000	1,000	8,000	0	14,800
PAD District II Total	39	38	1	3,362,200	26,400	3,519,843	27,460	1,404,750	383,750	1,312,800	44,300	936,300	162,890	2,009,200
Alabama	3	3	0	140,100	0	144,300	0	45,000	12,000	0	0	27,200	0	59,300
Arkansas	3	3	0	60,700	0	63,200	0	23,600	0	19,100	775	11,200	0	30,000
Louisiana	23	20	3	2,313,600	343,500	2,426,450	400,000	1,165,300	583,700	897,500	11,500	527,900	172,000	1,244,400
Mississippi	6	6	0	369,400	0	390,900	0	274,775	83,500	82,000	7,000	96,000	68,000	254,000
New Mexico	4	4	0	97,800	0	105,207	0	26,900	0	33,800	4,500	30,550	1,000	41,800
Texas	34	33	1	3,906,750	32,000	4,167,700	36,500	1,746,400	369,500	1,706,500	125,500	1,197,300	347,500	3,227,050
PAD District III Total	73	69	4	6,888,350	375,500	7,297,757	436,500	3,281,975	1,048,700	2,738,900	149,275	1,890,150	588,500	4,856,550
Colorado	3	2	1	76,000	10,000	85,000	16,000	43,000	4,200	27,500	1,000	22,000	5,000	35,500
Montana	4	4	0	139,650	0	145,500	0	53,450	7,700	55,900	6,250	37,730	4,900	119,340
Utah	6	6	0	154,500	0	163,000	0	46,980	8,500	55,400	9,100	30,500	2,400	41,700
Wyoming	4	4	0	129,725	0	134,750	0	59,000	9,000	48,500	9,500	25,250	0	45,200
PAD District IV Total	17	16	1	499,875	10,000	528,250	16,000	202,430	29,400	187,300	25,850	115,480	12,300	241,740
Alaska	5	5	0	222,500	0	236,700	0	5,000	0	0	0	12,000	9,000	0
Arizona	1	1	0	10,000	0	12,000	0	7,000	0	0	0	0	0	0
California	29	25	4	1,896,100	190,325	2,014,800	204,500	1,167,900	481,200	614,000	3,000	460,700	428,000	1,380,780
Hawaii	2	2	0	146,300	0	150,000	0	74,250	0	20,000	0	13,000	18,000	3,500
Nevada	2	1	1	7,000	4,500	7,000	4,700	6,000	0	0	0	0	0	0
Oregon	1	1	0	0	0	0	0	16,000	0	0	0	0	0	0
Washington	7	7	0	524,400	0	558,754	0	268,800	76,500	121,500	7,000	135,500	54,000	230,000
PAD District V Total	47	42	5	2,806,300	194,825	2,979,254	209,200	1,544,950	557,700	755,500	10,000	621,200	509,000	1,614,280
United States Total	199	183	16	14,965,480	730,675	15,811,704	821,760	7,172,055	2,099,550	5,608,000	280,225	3,907,150	1,363,130	9,644,010

See notes and sources at end of table

Number and Capacity of United States Petroleum Refineries

(a) Refineries where distillation units are completely idle but not permanently shutdown on January 1

SOURCE: U.S. Energy Information Administration, Petroleum Supply Annual

Section VIII
Table 8

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1987)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,759,700	602,600	76,100	370,300	345,100	150,800	23,200	704,950
Caribbean	8	1,392,300	580,300	125,000	79,000	183,340	15,000	244,500	496,950
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	--	121,500
Puerto Rico	2	121,000	59,300	--	12,000	5,800	15,000	10,000	15,700
Trinidad	2	300,000	171,000	18,000	25,000	31,000	--	104,500	41,800
Virgin Islands	1	600,000	190,000	40,000	--	125,000	--	130,000	290,000
Latin America	70	5,524,740	2,333,710	454,400	1,043,320	264,218	41,900	275,600	819,993
Brazil	13	1,321,100	685,200	41,100	321,900	21,600	--	--	132,700
Mexico	9	1,349,000	600,700	82,000	267,000	137,800	18,000	--	486,000
Venezuela	7	1,224,700	551,500	122,000	179,400	6,000	--	275,600	--
Europe	129	14,653,338	3,864,287	1,632,290	1,577,200	2,087,115	259,500	1,911,370	4,415,126
France	15	1,834,050	427,650	167,400	252,300	239,300	13,500	277,900	504,400
Germany (West)	19	1,719,800	537,300	269,400	186,200	317,000	96,200	326,700	690,950
Italy	21	2,678,700	708,700	345,130	276,000	296,600	55,000	298,600	591,400
Netherlands	7	1,400,800	253,370	148,710	125,500	150,400	30,000	183,200	511,820
Spain	10	1,305,000	291,800	124,000	92,500	187,100	15,000	156,100	284,000
United Kingdom	15	1,779,700	625,090	166,000	345,500	367,500	19,000	131,600	770,590
Middle East	37	3,862,622	960,446	236,999	107,660	399,568	386,810	602,552	557,351
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	618,000	217,000	--	30,000	51,000	159,000	337,000	36,000
Saudi Arabia	6	1,125,000	67,655	26,000	10,000	86,900	68,100	39,000	207,000
Asia-Pacific	106	10,400,180	2,618,577	471,043	868,908	1,093,230	226,630	1,812,430	3,153,680
India	12	991,070	331,007	104,730	129,408	26,690	6,500	13,800	71,820
Japan	46	4,790,050	1,532,940	80,520	502,750	561,420	50,950	1,497,500	1,943,910
Korea	6	862,000	35,500	30,000	--	63,200	7,000	21,000	95,000
Singapore	5	961,000	170,500	133,000	--	50,600	44,200	76,700	288,400
Africa	45	2,523,563	390,617	83,170	131,100	283,777	34,000	105,100	470,904
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	7	452,110	46,725	16,470	--	30,940	--	--	84,386
Libya	3	329,400	3,432	--	--	14,582	--	--	37,226
South Africa	5	388,500	177,000	59,500	81,400	57,800	18,000	66,300	125,150
TOTAL	422	40,116,443	11,350,537	3,079,002	4,177,488	4,656,348	1,114,640	4,974,752	10,618,954

See notes and sources at end of table

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1988)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,868,900	654,650	78,150	385,550	368,650	189,550	23,900	755,580
Caribbean	11	1,387,800	605,300	165,000	79,000	195,650	15,000	244,500	518,150
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	--	121,500
Puerto Rico	2	123,000	59,300	--	12,000	5,800	15,000	10,000	15,700
Trinidad	2	300,000	171,000	18,000	25,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	65	5,600,048	2,428,735	484,700	1,093,355	281,218	41,900	546,100	523,553
Brazil	13	1,407,300	698,000	33,800	350,500	24,800	--	--	133,400
Mexico	9	1,354,000	600,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,600	138,000	193,100	6,000	--	296,100	--
Europe	125	14,955,230	4,873,029	1,785,630	1,763,450	2,147,632	261,500	1,969,647	4,500,407
France	14	1,940,600	678,600	163,550	288,800	258,700	13,500	262,300	552,400
Germany (West)	16	1,647,800	619,800	286,400	174,700	307,100	96,200	326,700	652,150
Italy	19	1,563,100	723,200	388,400	277,400	289,600	55,000	301,900	596,700
Netherlands	7	1,381,000	401,370	151,560	125,500	157,400	30,000	148,200	522,400
Spain	10	1,305,000	374,800	178,000	143,500	189,100	15,000	190,500	283,000
United Kingdom	15	1,802,700	806,090	152,000	392,000	367,500	21,000	115,600	776,590
Middle East	37	4,146,222	1,167,746	237,999	173,660	487,796	386,510	603,652	676,693
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	628,000	217,000	--	30,000	51,000	159,000	338,100	36,000
Saudi Arabia	7	1,375,000	271,655	27,000	76,000	178,900	65,100	39,000	314,000
Asia-Pacific	102	10,274,302	3,017,840	495,700	945,370	1,073,240	246,250	1,752,330	3,218,140
India	12	1,058,742	327,570	113,900	133,470	26,690	--	13,800	77,890
Japan	43	4,566,850	1,675,940	82,800	557,150	533,940	50,950	1,393,200	2,083,660
Korea	5	820,000	33,400	30,000	--	59,450	7,000	21,000	92,800
Singapore	5	858,000	256,100	137,700	--	54,300	48,100	83,600	235,400
Africa	43	2,630,250	344,037	87,170	142,040	303,582	31,500	101,600	568,512
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	7	452,110	46,725	16,470	--	30,940	--	--	84,386
Libya	3	329,400	3,432	--	--	14,582	--	--	37,226
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	410	40,862,752	13,091,337	3,334,349	4,582,425	4,857,768	1,172,210	5,241,729	10,761,035

See notes and sources at end of table

Section VIII
Table 8b

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1989)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	27	1,855,800	657,850	88,250	387,600	369,600	206,350	51,000	771,600
Caribbean	10	1,385,000	605,200	165,000	82,000	194,950	15,000	246,500	502,700
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	--	121,500
Puerto Rico	2	123,000	59,300	--	12,000	5,800	15,000	12,000	--
Trinidad	2	300,000	171,000	18,000	28,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	67	5,598,438	2,427,796	490,600	1,105,710	287,560	41,900	546,100	529,419
Brazil	13	1,407,300	698,000	33,800	350,500	24,800	--	--	133,400
Mexico	9	1,354,000	600,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,000	138,000	193,100	6,000	--	296,100	--
Europe	124	14,687,759	4,750,895	1,737,730	1,867,978	2,045,389	274,000	1,958,866	4,460,292
France	14	1,875,970	684,500	152,850	319,200	247,000	13,500	264,900	523,000
Germany (West)	15	1,518,200	608,700	289,500	179,400	275,100	96,200	296,400	624,200
Italy	19	2,450,200	590,100	360,400	278,300	284,300	59,000	337,100	579,200
Netherlands	7	1,380,700	399,370	154,360	125,500	166,000	30,000	148,200	522,620
Spain	10	1,285,000	388,800	173,000	164,000	171,600	15,000	192,100	278,900
United Kingdom	15	1,803,100	806,840	152,000	442,000	307,500	21,000	115,600	776,590
Middle East	37	4,334,676	1,309,981	293,184	188,660	471,142	403,080	471,896	947,725
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	817,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	7	1,375,000	280,655	32,000	76,000	180,900	70,100	40,000	340,000
Asia-Pacific	102	10,064,786	3,005,841	506,490	987,503	1,096,190	324,450	1,756,360	3,010,560
India	12	1,051,441	332,996	110,670	133,953	26,030	6,000	13,800	77,630
Japan	41	4,362,750	698,940	82,800	596,950	531,650	101,750	1,370,280	1,973,740
Korea	6	880,000	67,000	49,000	--	62,000	29,000	21,000	110,800
Singapore	5	852,000	256,000	137,700	--	58,000	48,100	80,600	243,400
Africa	44	2,786,987	397,217	94,170	174,000	331,182	31,500	105,700	551,248
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	8	489,203	46,725	16,470	--	30,940	--	--	84,386
Libya	3	329,400	3,432	--	--	13,982	--	--	37,126
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	411	40,713,446	13,154,780	3,375,424	4,793,451	4,796,013	1,296,280	5,136,422	10,773,544

See notes and sources at end of table

Section VIII
Table 8c

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1990)

Area/ Country	Number of Plants	Crude Capacity	Vaccuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,851,800	642,950	88,250	387,470	372,450	206,350	51,000	735,060
Caribbean	11	1,385,700	613,900	165,000	83,500	212,740	15,000	234,500	552,500
Netherland Antilles	1	320,000	158,000	67,000	42,000	15,000	--	--	121,500
Puerto Rico	2	123,000	68,000	--	13,500	26,500	15,000	--	47,800
Trinidad	2	300,000	171,000	18,000	28,000	31,000	--	104,500	41,800
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	68	5,768,236	2,543,401	491,126	1,088,410	282,980	41,900	546,100	529,969
Brazil	13	1,397,100	749,100	38,300	331,100	21,000	--	--	135,250
Mexico	9	1,514,000	680,700	82,000	267,000	157,800	18,000	250,000	207,000
Venezuela	6	1,201,100	560,600	138,000	193,100	6,000	--	296,100	--
Europe	145	14,938,489	4,867,981	1,807,818	2,059,683	2,043,048	309,000	2,044,970	4,443,806
France	14	1,819,900	684,500	152,850	325,500	247,400	13,500	269,900	514,600
Germany (West)	16	1,507,200	660,700	283,262	182,700	283,300	108,200	435,500	503,400
Italy	21	2,803,600	687,400	412,900	305,700	334,850	59,000	336,300	675,900
Netherlands	7	1,380,700	404,400	155,060	125,500	178,600	52,000	148,200	545,900
Spain	10	1,293,000	399,000	174,000	173,300	172,000	15,000	156,100	333,600
United Kingdom	15	1,253,200	560,590	131,000	321,500	205,400	22,000	41,000	620,390
Middle East	37	4,681,236	1,608,957	296,684	198,900	529,600	411,080	554,723	1,084,460
Iran	4	530,000	215,200	80,800	--	63,845	93,180	3,120	34,225
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	7	1,007,000	416,655	34,000	82,400	167,600	78,100	62,900	353,100
Asia-Pacific	102	10,010,867	3,009,395	553,920	1,023,445	1,091,905	372,990	1,664,620	3,098,069
India	12	1,079,842	334,200	110,670	136,370	26,230	--	13,800	71,231
Japan	41	4,198,450	1,654,140	85,800	617,225	531,800	152,750	1,279,040	1,964,315
Korea	6	867,000	83,400	48,700	--	62,450	29,000	21,000	110,800
Singapore	5	830,000	258,000	170,500	--	61,300	49,000	80,600	251,600
Africa	44	2,777,875	386,847	87,170	172,700	325,132	34,200	103,600	601,723
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	8	489,203	46,725	16,470	--	30,940	--	--	84,386
Libya	3	329,400	3,432	--	--	14,182	--	--	37,226
South Africa	4	433,500	104,000	63,500	84,400	62,800	18,000	77,300	142,150
TOTAL	435	41,414,203	13,673,431	3,489,968	5,014,108	4,857,855	1,390,520	5,199,513	11,045,587

See notes and sources at end of table

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1991)

Area/ Country	Number of Plants	Crude Capacity	Vacuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,882,060	674,945	88,978	387,870	367,060	204,803	47,300	744,745
Caribbean	11	1,333,200	572,900	215,000	80,000	195,240	15,600	134,000	558,700
Netherland Antilles	1	320,000	158,000	127,000	42,000	15,000	--	--	125,000
Puerto Rico	2	125,000	68,000	--	12,000	25,500	15,600	--	46,700
Trinidad	2	246,000	130,000	8,000	26,000	14,400	--	4,000	46,100
Virgin Islands	1	545,000	215,000	80,000	--	125,000	--	130,000	290,000
Latin America	68	5,940,675	2,636,567	530,665	1,067,455	282,850	41,900	551,500	547,599
Brazil	13	1,411,520	725,985	39,765	316,585	23,610	--	--	155,860
Mexico	9	1,679,000	760,700	82,000	267,000	157,800	18,000	253,000	206,000
Venezuela	6	1,167,000	548,370	134,100	139,000	6,000	--	277,700	700
Europe	140	15,438,461	5,648,417	1,889,365	2,093,660	2,330,765	429,040	2,027,206	4,750,471
France	14	1,815,630	729,910	172,990	349,480	246,760	13,440	267,040	614,540
Germany (West)	20	2,065,400	998,100	386,962	240,250	376,500	168,200	541,200	696,110
Italy	21	2,385,358	828,968	390,450	306,300	315,050	59,000	327,300	630,200
Netherlands	7	1,196,700	423,400	160,060	128,000	182,600	53,000	164,000	467,100
Spain	10	1,321,000	393,200	179,500	157,300	191,000	15,000	75,000	210,100
United Kingdom	15	1,866,940	843,990	146,000	444,500	366,300	54,000	115,600	846,090
Middle East	39	5,020,826	1,516,620	335,685	202,201	527,069	409,080	546,907	1,130,238
Iran	5	720,000	284,840	92,500	--	105,397	93,180	20,550	105,400
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	8	1,862,500	425,555	71,900	87,541	183,922	76,100	44,650	478,300
Asia-Pacific	102	10,360,985	3,166,095	565,668	1,060,445	1,168,763	354,670	1,667,280	3,354,826
India	12	1,122,360	365,000	114,875	136,970	28,233	--	--	99,133
Japan	41	4,383,400	1,721,365	76,900	629,975	607,970	113,350	1,321,940	2,097,325
Korea	6	867,000	83,400	48,700	--	62,450	29,000	21,000	110,800
Singapore	5	878,000	271,200	190,700	--	63,600	71,000	91,600	261,600
Africa	44	2,871,583	376,757	102,670	172,700	333,981	36,200	119,200	548,237
Algeria	4	464,700	15,000	--	--	55,600	--	--	23,600
Egypt	8	523,153	47,000	16,470	--	33,540	--	15,000	76,878
Libya	3	347,600	3,432	--	--	13,882	--	--	36,826
South Africa	4	430,500	102,000	72,000	84,400	62,600	20,000	77,300	141,850
TOTAL	432	42,847,790	14,592,301	3,728,031	5,064,331	5,205,728	1,491,293	5,093,393	11,634,816

See notes and sources at end of table

Section VIII
Table 8e

Operating Refineries Worldwide(a)
(Barrels per Calendar Day)

(as of January 1, 1992)

Area/ Country	Number of Plants	Crude Capacity	Vacuum Distillation	Thermal Operations	Catalytic Cracking	Catalytic Reforming	Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
Canada	28	1,905,050	681,000	88,550	402,670	371,100	208,650	46,500	743,060
Caribbean	13	1,496,200	690,500	193,500	81,700	210,940	85,600	144,000	565,300
Netherland Antilles	2	470,000	278,000	99,000	42,000	15,000	70,000	0	125,000
Puerto Rico	2	123,000	65,000	0	13,700	26,500	15,600	10,000	37,800
Trinidad	2	246,000	130,000	8,000	26,000	27,900	0	4,000	59,600
Virgin Islands	1	545,000	215,000	80,000	0	125,000	0	130,000	290,000
Latin America	67	5,778,475	2,599,527	559,565	1,126,935	317,560	41,900	503,900	669,670
Brazil	13	1,406,220	727,835	68,165	317,085	23,610	0	0	155,860
Mexico	8	1,574,000	712,700	62,000	243,000	187,800	18,000	303,000	242,000
Venezuela	6	1,171,000	546,800	134,100	220,700	8,900	0	180,100	95,300
Europe	147	16,039,043	5,920,561	2,063,019	2,227,964	2,444,647	497,674	2,146,670	5,106,679
France	14	1,815,630	729,910	172,990	356,260	248,760	13,440	267,040	614,540
Germany (West)	20	2,061,800	998,100	380,600	234,250	379,400	170,200	541,200	700,060
Italy	19	2,386,358	828,868	451,450	314,300	299,850	65,000	342,500	650,900
Netherlands	6	1,218,500	436,600	162,100	128,000	186,600	53,000	164,000	481,100
Spain	10	1,321,000	393,200	179,500	157,300	195,600	15,000	75,000	210,200
United Kingdom	15	1,856,140	830,650	149,000	454,500	368,200	60,800	133,100	823,190
Middle East	39	4,992,894	1,541,095	349,285	204,041	527,486	409,080	489,207	1,213,632
Iran	5	720,000	284,840	92,500	0	105,400	93,180	20,550	105,400
Kuwait	4	819,000	338,000	54,000	42,000	33,000	170,000	205,000	263,000
Saudi Arabia	8	1,862,500	425,555	71,900	87,541	183,922	76,100	44,650	478,300
Asia-Pacific	102	10,953,035	3,127,605	518,435	1,094,995	1,273,253	398,680	1,886,960	3,171,476
India	12	1,122,360	365,000	114,875	136,970	28,233	0	0	99,133
Japan	41	4,612,450	1,690,575	76,900	646,025	632,570	164,500	1,549,340	1,732,050
Korea	6	1,163,100	89,400	19,000	0	130,000	22,000	0	278,580
Singapore	5	893,000	271,200	188,500	0	63,600	71,400	91,600	261,600
Africa	44	2,866,103	378,402	102,670	172,700	329,987	36,200	122,000	549,910
Algeria	4	464,700	15,000	0	0	55,600	0	0	23,600
Egypt	8	523,153	47,000	16,470	0	33,540	0	15,000	76,878
Libya	3	348,400	3,432	0	0	14,182	0	0	36,826
South Africa	4	430,500	102,000	72,000	84,400	62,600	20,000	77,300	141,850
TOTAL	440	44,030,800	14,938,690	3,875,024	5,311,005	5,474,973	1,677,784	5,339,237	12,019,727

(a) Excluding the United States, the U.S.S.R., and China.

SOURCE: 1987-1991: Oil and Gas Journal, "Worldwide Report" issues,
1992: Oil and Gas Journal, Worldwide Refining Report

Nelson Refinery Operating Cost Indexes
(1956 = 100)

Year	Fuel and Power Cost	Wage Rate	Productivity of labor	Labor Cost	Investment Related	Chemicals and Catalyst	Nelson Operating Indexes	
							Refineries	Processes
1956	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1957	115.1	104.1	98.1	106.1	105.4	102.2	106.7	107.7
1958	102.1	105.4	100.3	105.0	109.5	104.4	105.8	105.8
1959	103.5	111.5	109.0	102.3	113.7	107.8	106.8	106.0
1960	109.9	113.0	112.9	100.3	116.9	114.3	108.8	107.2
1961	106.7	119.2	122.3	97.5	119.2	103.2	106.7	106.4
1962	100.9	123.9	131.8	93.9	121.7	96.7	103.7	103.6
1963	104.4	129.1	142.7	90.5	115.2	95.6	100.8	100.6
1964	102.8	132.8	149.1	89.1	114.5	99.0	100.2	100.5
1965	106.1	138.8	157.2	88.3	116.0	119.3	104.6	106.2
1966	105.6	145.4	165.9	87.7	103.2	130.9	102.8	100.3
1967	104.7	152.4	165.1	92.3	103.6	128.6	104.1	101.2
1968	103.8	158.0	173.1	91.8	103.6	124.3	103.5	101.3
1969	107.1	171.3	187.6	91.3	104.3	125.9	104.3	102.5
1970	129.2	183.1	179.9	101.8	115.7	127.4	113.9	117.6
1971	166.4	194.9	185.6	105.0	115.7	120.1	117.4	133.3
1972	166.8	210.0	197.0	107.1	162.3	112.2	118.5	147.0
1973	186.8	221.2	214.9	102.9	193.0	117.3	125.7	168.0
1974	310.5	243.9	201.5	121.1	215.8	153.2	159.7	222.5
1975	376.8	273.9	206.0	133.0	246.5	186.7	189.3	258.5
1976	384.5	314.3	216.2	145.5	252.6	195.2	209.3	267.1
1977	430.5	346.2	231.4	149.6	263.6	184.4	228.2	287.8
1978	422.4	388.6	229.4	169.6	280.7	191.8	243.2	297.0
1979	605.7	424.8	222.5	191.1	300.2	216.6	278.3	374.4
1980	810.5	439.9	226.3	200.6	325.2	229.2	312.7	457.5
1981	1016.0	512.8	188.8	271.9	357.2	237.7	373.3	562.2
1982	931.9	574.7	178.6	321.8	384.1	234.1	396.6	557.2
1983	913.8	621.9	186.7	334.5	415.3	231.3	412.9	565.5
1984	968.3	629.9	204.5	308.0	436.6	233.4	417.4	584.2
1985	878.9	642.3	219.7	293.4	445.8	222.9	406.8	551.7
1986	548.8	651.8	253.8	259.4	460.0	206.7	369.0	430.8
1987	554.1	663.2	261.8	253.5	473.2	192.8	371.8	435.6
1988	445.2	689.8	264.6	260.8	489.3	213.9	373.7	405.3
1989	503.0	709.3	275.9	257.4	502.5	230.4	384.9	429.1
1990	558.1	753.7	279.2	270.5	512.9	233.6	399.7	456.0
1991	443.8	787.4	280.6	280.8	511.4	228.5	392.2	418.6

SOURCE: Oil and Gas Journal.

Section VIII
Table 10

United States Refineries Shutdown as of January 1, 1992

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District I					
American Refining Group, Inc.	Indianaola, Pa.	180	03/84	12/85	3
Amoco Oil Co.	Baltimore, Md.	15,000	01/82	03/82	25+
Ashland Oil Inc.	Buffalo, N.Y.	64,000	07/82	12/84	36+
Ashland Oil Inc.	Freedom, Pa.	6,800	04/85	12/85	37+
ATC Petroleum Inc.	Newington, N.H.	13,400	07/81	12/81	7
Chevron U.S.A. Inc.	Baltimore, Md.	14,200	12/86	12/86	38
City Gas and Transmission Corp.	Wilmington, N.C.	10,000	05/81	12/89	11
Elk Refining Co. (division of Pennzoil Co. Inc.)	Falling Rock, W.Va.	5,600	12/82	12/82	25+
Manatee Energy Co.	Port Manatee, Fl.	28,400	05/81	10/81	2
Mobil Oil Corp.	Buffalo, N.Y.	43,000	05/81	07/81	25+
Quaker State Oil Refining Corp.	Emlenton, Pa.	0	12/83	12/83	25+
Seminole Refining Corp.	St. Marks, Fl.	17,000	05/87	03/88	28
Virginia Oil & Refining Co.,Inc.	Jonesville, Va.	1,000	08/87	12/87	2
TOTAL PAD I		218,580			
PAD District II					
Allied Materials Corp.	Stroud, Ok.	7,600	12/84	02/85	37+
Amoco Oil Co.	Sugar Creek, Mo.	104,000	05/82	06/82	25+
Amoco Oil Co.	Wood River, Il.	104,000	05/81	10/81	25+
Ashland Oil Inc.	Findlay, Oh.	20,400	02/82	12/84	36+
Ashland Oil Inc.	Louisville, Ky.	25,200	04/82	12/84	36+
B-T Energy Corp.	Louisville, Ky.	3,000	11/84	11/85	3
Champlin Petroleum Co.	Enid, Ok.	53,800	06/83	12/83	25+
Chevron U.S.A. Inc.	Cincinnati, Oh.	43,700	05/86	08/86	38+
Conoco Inc.	Wrenshall, Mn.	23,500	05/81	09/81	5
CRA, Inc.	Scottsbluff, Nb.	5,600	05/82	06/82	25+
Dillman Oil Recovery Inc.	Oblong, Il.	1,200	01/81	02/82	4+
Dow Chemical U.S.A.	Bay City, Mi.	20,000	05/80	09/81	25+
E-Z Serv Refining Inc.	Shallow Water, Kn.	9,500	04/81	02/82	25+
Energy Cooperative Inc.	East Chicago, In.	126,000	05/81	06/82	25+
Energy Development	Crossville, Il.	1,000	02/81	04/81	22
Flying J Petroleum Inc.	Williston, N.D.	4,600	08/84	12/87	32
Gladieux Refinery Inc.	Fort Wayne, In.	19,000	12/85	06/86	27+
Gulf Oil Corp.	Toledo, Oh.	50,300	06/81	11/81	25+
Hudson Refining Co. Inc.	Cushing, Ok.	19,000	12/82	11/83	6
Indiana Refining Inc.	Princeton, In.	5,000	12/80	02/81	23
Industrial Fuel and Asphalt of Indiana Inc.	Hammond, In.	7,600	12/81	06/82	25+
Intercoastal Energy Services Corp.	Troy, In.	1,250	11/90	3/91	
Kentucky Oil & Refining	Betsy Layne, Ky.	600	02/81	11/88	21
Lakeside Refining Co.	Kalamazoo, Mi.	5,600	09/85	12/87	39
Mid-America Refining Co. Inc.	Chanute, Kn.	3,000	03/81	07/82	25+
Motor Oils Refining	McCook, Il.	1,500	01/88	02/88	6
Northland Oil and Refining Co.	Dickinson, N.D.	5,000	02/81	02/82	7
Oklahoma Refining Co.	Cyril, Ok.	12,750	12/84	12/84	36+

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1992

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
Okmulgee Refining Co.	Okmulgee, Ok.	25,000	06/82	12/82	25+
Phillips Petroleum Co.	Kansas City, Kn.	80,000	08/82	09/82	25+
Texaco Inc.	Lockport, Il.	72,000	04/81	10/81	25+
Texas American Petrochemical Inc.	West Branch, Mi.	11,500	09/81	02/82	25+
Tonkawa Refining Co.	Arnett, Ok.	12,000	06/84	09/84	16
Tosco Corp.	Duncan, Ok.	47,000	06/83	12/84	35
Wireback Oil Co.	Plymouth, Ok.	1,800	02/81	03/81	25+
TOTAL PAD II		933,000			
PAD District III					
Adobe Refining Co., div. of Funding Systems Refining Corp.	La Blanca, Tx.	5,200	11/81	12/81	25+
Amber Refining Inc.	Fort Worth, Tx.	19,700	12/85	12/88	42
Bayou State Oil Corp.	Houston, La.	3,000	01/81	03/82	25+
Brio Refining Inc.	Friendswood, Tx.	12,500	09/82	12/82	4
Bronco Refining Co.	Houston, Tx.	2,250	04/81	07/82	1
Carbonit Refining Co.	Hearne, Tx.	11,000	02/81	12/81	6
Caribou-Four Corners Inc.	Farmington, N.M.	2,200	05/82	08/84	19
Clark Oil & Refining Corp.	Mt. Airy, La.	0	12/86	12/87	39
Clinton Manges	Palestine, Tx.	6,000	07/81	07/82	25+
Conoco Inc.	Alvin/Texas City, Tx.	33,274	10/85	12/85	22
Conoco Inc.	Egan, La.	2,800	12/86	02/89	16
Copano Refining Co.	Ingleside, Tx.	11,100	09/81	02/82	4
Damson Gas Processing Corp.	White Deer, Tx.	0	02/85	05/85	12
Donna Refining Partners Ltd.	Donna, Tx.	4,750	11/89	12/89	1
Dorchester Refining Co.	Mt. Pleasant, Tx.	26,500	09/84	12/84	36+
Dow Chemical U.S.A.	Freeport, Tx.	190,000	08/81	06/82	1
Eagle Refining	Jackson, Tx.	1,800	01/90	10/90	
Eddy Refining Co.	Houston, Tx.	3,250	10/84	11/84	36+
Erickson Refining Corp.	Pt. Neches, Tx.	30,000	12/81	08/83	4
Evangeline Refining Co.	Jennings, La.	4,500	12/82	12/82	25+
Flint Chemical Co.	San Antonio, Tx.	1,500	01/85	03/85	23
GAMXX Energy Inc.	Theodore, Al.	27,000	01/88	03/88	17
Giant Industries Inc.	Farmington, N.M.	13,500	05/82	11/82	7
Gulf Oil Corp.	Venice, La.	28,700	04/81	12/81	13
Imron Refg., Inc.	San Leon, Tx	7,000	NA	08/90	0
Independent Refining Corp.	Winnie, Tx.	50,000	10/81	08/83	23
Liquid Energy Corp.	Bridgeport, Tx.	10,000	02/87	10/88	6
MacMillan Petroleum Co.	Norphlet, Ar.	5,800	08/87	12/87	39
Mallard Resources Inc.	Gueydan, La.	7,400	11/83	12/83	4
McTan Refining Corp.	St. James, La.	19,300	07/81	08/83	6
Mid-Gulf Energy Corp.	Ingleside, Tx.	39,400	10/83	05/84	6
Natchez Refining Co.	Natchez, Ms.	16,000	06/82	09/82	2
OGC Corp.	Egan, La.	5,000	09/87	10/88	2
Petraco-Valley Oil Refining Co.	Brownsville, Tx.	12,300	03/83	12/83	5
Petromax Refining Co.	Houston, Tx.	2,000	09/85	05/86	4
Placid Oil Co.	Mont Belvieu, Tx.	8,500	01/82	07/82	2

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1992

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
Port Petroleum Inc.	Stonewall, La.	3,200	12/83	02/84	4
Quintana Petrochemical Co.	Corpus Christi, Tx.	33,300	07/84	09/84	30
Quitman Refining Co.	Quitman, Tx.	6,600	04/82	06/82	4
Rio Grande Crude Refining	Brownsville, Tx.	9,500	06/81	06/82	3
Rio Grande Recovery Systems Inc.	Brownsville, Tx.	1,000	05/81	02/82	2
Schulze Processing Inc.	Tallulah, La.	1,760	05/81	08/82	4
Shepard Oil Co.	Jennings, La.	10,000	05/81	02/82	4
Shore, Inc.	Kilgore, Tx.	550	03/83	07/83	3
Sooner Refining Co.	Darrow, La.	8,000	01/82	02/82	2
Southern Union Refining Co.	Monument, N.M.	5,400	01/81	10/81	25+
Southern Union Refining Co.	Lovington, N.M.	36,100	08/84	11/84	8
Southland Oil Co.	Yazoo City, Ms.	5,500	02/81	07/81	25+
Tesoro Petroleum Corp.	Carrizo Springs, Tx.	26,100	07/84	12/84	27
T & S Refining Co.	Jennings, La.	10,500	07/81	03/82	2
Texaco Refining and Marketing Inc.	Amarillo, Tx.	20,000	04/85	12/85	37+
Texas NAPCO Inc.	St. James, La.	17,000	08/83	12/88	15
Texas Refining Co.	Midland, Tx.	2,500	04/81	06/81	1
Texas Standard Refining Inc.	Houston, Tx.	1,800	01/81	10/81	"(a)
Thriftway Oil Co.	Graham, Tx.	1,184	04/81	11/83	25+
Tipperary Refining Co.	Ingleside, Tx.	7,320	01/82	03/82	4
Tropicana Energy Co.	Ft. Worth (Euless),Tx.	4,650	12/83	12/85	19
Unocal Corp.	Nederland, Tx.	120,000	12/89	12/89	6
Vulcan Refining	Cordova, Al.	9,500	09/90	12/90	
Warrior Asphalt Refining Corp.	Holt, Al.	4,000	08/89	12/89	34
Wickett Refining Co.	Wickett, Tx.	8,000	01/76	02/82	25+
TOTAL PAD III		976,688			
PAD District IV					
Amoco Oil Co.	Caspar, Wy.	40,000	12/91	12/91	6
Caribou-Four Corners Inc.	Woods Cross, Ut.	8,400	12/82	12/84	21
C & H Refinery Inc.	Lusk, Wy.	180	01/81	02/82	25+
Flying J. Petroleum Inc.	Cutbank, Mt.	5,600	03/83	02/88	36
Glacier Park Co.	Osage, Wy.	10,000	02/81	03/82	4
Glenrock Refinery Inc.	Glenrock, Wy.	6,000	04/81	09/81	5
Husky Oil Co.	Cody, Wy.	11,500	06/82	09/82	25+
Kenco Refining Inc.	Wolf Point, Mt.	4,700	10/85	12/85	8
Morrison Petroleum Co.	Woods Cross, Ut.	6,000	12/85	12/85	11
Mountaineer Refining Co.,Inc.	LaBarge, Wy.	350	12/87	06/88	13
Sage Creek Refining Co.	Cowley, Wy.	1,000	01/82	06/82	17
Silver Eagle Oil Co.	LaBarge, Wy.	3,000	10/82	12/87	13
Southwestern Refining Co.	La Barge, Wy.	1,040	04/81	08/81	7
Texaco Inc.	Casper, Wy.	21,000	03/82	07/82	25+
TOTAL PAD 1V		78,770			

See notes and sources at end of table

United States Refineries Shutdown as of January 1, 1992

District/Refinery	Location	Crude Distillation Capacity (b/d)	Date of Last Operation	Date Shutdown	Years in Operation
PAD District V					
Anchor Refining Co.	McKittrick, Ca.	10,000	6/91	8/91	
Arizona Fuels Corp.	Fredonia, Az.	6,000	02/83	09/83	11
Beacon Oil Co.	Hanford, Ca.	17,300	11/87	12/87	27
Chevron U.S.A. Inc.	Bakersfield, Ca.	26,000	04/86	07/86	38+
Chevron	Kenai, Ak.	22,000	6/91	7/91	7
Coastal Petroleum Refiners Inc.	Bakersfield, Ca.	10,000	06/85	12/85	6
Demenno-Kerdoon	Compton, Ca.	10,000	01/83	08/83	6
Edgington Oil Co.	Long Beach, Ca.	41,600	12/90	12/91	
Gibson Oil & Refining	Bakersfield, Ca.	9,600	07/87	12/90	
Golden Eagle Refining Co.,Inc.	Carson, Ca.	16,170	11/84	02/85	37+
Newhall Refining Co.,Inc.	Newhall, Ca.	22,500	11/89	12/89	42
Quad Refining Corp	Bakersfield, Ca.	7,000	08/80	10/81	2
Road Oil Sales Inc.	Bakersfield, Ca.	6,000	01/81	12/81	9
Sabre Refining Inc.	Bakersfield, Ca.	10,000	12/86	09/87	16
Tosco Corp.	Bakersfield, Ca.	38,800	11/83	11/84	33
United Independent Oil Co.	Tacoma, Wa.	730	07/80	03/82	7
U.S.A. Petrochemical Corp.	Venturam, Ca.	24,000	12/84	12/84	7
West Coast Oil Co.	Oildale, Ca.	5,000	10/85	10/88	32
Western Oil & Refining	Long Beach, Ca.	19,200	02/84	12/87	11
TOTAL PAD V		291,900			
TOTAL UNITED STATES		2,498,938			

(a) Less than one year.

SOURCE: U.S. Department of Energy, Energy Information Administration, Petroleum Supply Annuals.

Section VIII
Table 11

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1960		1970		1980		1983	
Company	**Capacity**	**Company**	**Capacity**	**Company**	**Capacity**	**Company**	**Capacity**
Standard of New Jersey	961.7	Standard of New Jersey	1,087.0	Exxon	1,557.0	Standard of California	1296.5
Texaco	724.0	Standard of Indiana	1,040.4	Standard of California	1,383.7	Exxon	1200
Socony-Mobil	716.7	Texaco	1,029.5	Standard of Indiana	1,238.0	Standard of Indiana	1011
Standard of Indiana	675.4	Shell	1,011.5	Shell	1,123.4	Shell	1005.2
Standard of California	647.5	Standard of California	969.0	Texaco	1,059.0	Gulf(a)	849.2
Shell	594.0	Mobil	794.9	Gulf(a)	949.2	Texaco	815
Gulf	500.6	Gulf(a)	751.6	Mobil	835.7	Mobil	750
Sinclair	473.0	Atlantic Richfield	681.2	Atlantic Richfield	811.2	Atlantic Richfield	701
Cities Service	293.0	Sun	455.0	Sun(b)	521.5	U.S. Steel	492.5
Phillips	274.3	Union	444.0	Marathon	513.0	Standard of Ohio	456
Sun	255.0	Standard of Ohio	439.0	Union	490.0	Sun(b)	443
Tidewater	253.5	Phillips	398.0	Ashland	462.9	DuPont	415.8
Continental	216.0	Ashland	318.3	Standard of Ohio	452.0	Unocal(d)	370.5
Atlantic	210.0	Continental	299.0	Conoco	448.1	Ashland	353.3
Pure	187.0	Cities Service	281.0	Phillips	397.0	Southland(Citgo)(e)	297
Union	181.0	Getty	207.0	Cities Service	291.0	Phillips	295
Sunray Mid-Continent	171.0	Marathon	205.0	Union Pacific	283.8	Getty	258.6
Standard of Ohio	170.5	Coastal States Gas	135.0	Coastal	278.0	Koch	242
Ashland	168.5	Amerada Hess	125.0	Getty	261.5	Union Pacific	215
Richfield	165.0	Union Pacific	122.5	Tosco	260.5	Coastal	171.3
U.S. TOTAL	9,629.7	U.S. TOTAL(c)	12,811.0	U.S. TOTAL(c)	18,279.3	U.S. TOTAL(c)	14949.1

See notes and sources at end of table

Section VIII
Table 11a

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1984		1985		1986		1987	
Company	Capacity	Company	Capacity	Company	Capacity	Company	Capacity
Chevron(f)	2029.3	Chevron(a)(f)	1879.2	Chevron(h)	1845	Chevron	1718.6
Exxon	1182	Exxon	1200	Exxon	1143.5	Exxon	1169
Shell	1005	Shell	1019.6	Shell	1045.8	Shell	1065.7
Standard of Indiana	986	Amoco (Std. of Ind.)	982	Amoco	967	Amoco	939
Texaco(g)	939	Texaco	873.2	Texaco	886	Texaco	881.5
Mobil	750	Mobil	755	Mobil	755	Mobil	755
Atlantic Richfield	741	Standard Oil (Ohio)	664.5	ARCO (Atlantic Richfield)	673	ARCO	668
U.S. Steel	492.5	Atlantic Richfield	655	Standard Oil	667.6	BP America (Standard Oil)(i)	667.6
Standard of Ohio	456	U.S. Steel	492.5	USX (U.S. Steel)	513	USX	513
Sun(b)	443	Unocal	474.5	Unocal	490	Unocal	497
DuPont	429.8	Sun(b)	443	Sun(b)	443	Sun(b)	460
Ashland	353.3	DuPont	400	DuPont	393.2	DuPont	394.3
Unocal	339	Ashland	346.5	Ashland	346.5	Ashland	346.5
Phillips	300	Phillips	300	Coastal	318.3	Phillips	305
Southland	297	Southland	297	Phillips	305	Coastal	290.4
Koch	262	Koch Industries	280	Citgo (Southland)	297	Koch	280
Union Pacific	217	Coastal	261.3	Koch Industries	280	Petroleos de Venezuela(l)	226.1
Coastal	171.3	Union Pacific	220	Union Pacific	218.4	Total Petroleum	191.1
Kerr-McGee	164.8	Kerr-McGee	164.8	Kerr-McGee	155.8	Kerr-McGee	164.8
Tosco	164.5	Total	152	Solomon (Philbro)	154.4	Solomon	155.7
U.S. TOTAL(c)	14481.6	U.S. TOTAL(c)	14761.5	U.S. TOTAL(c)	15067.8	U.S. TOTAL(c)	15139

See notes and sources at end of table

Section VIII
Table 11b

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

1988		1989	
Company	Capacity	Company	Capacity
Chevron	1660	Chevron	1,621.0
Exxon	1181	Exxon	1,147.0
Shell	1082.6	Shell	1,078.6
Amoco	959	Amoco	956.0
Texaco(j)	894	Movil	838.0
Mobil	823	BP America	756.6
BP America	756.6	USX	603.0
ARCO	686	Texaco(m)	595.0
Sun(k)	590	Sun(k)	595.0
USX	553	ARCO(n)	559.0
Unocal	442.1	DuPont	406.5
DuPont	397.3	Ashland	346.5
Ashland	346.5	Petroleos de Venezuela(o)	344.5
Coastal	320.8	Koch	310.0
Phillips	305	Phillips	305.0
Koch	305	Coastal(p)	302.8
Solomon	276.1	Unocal(q)	295.6
Petroleos de Venezuela(l)	217.5	Aramco(r)	295.0
Total Petroleum	184.1	Solomon	277.1
American Petrofina	165	Total Petroleum	190.1
U.S. TOTAL(c)	15096.8	U.S. TOTAL(c)	15,183.6

See notes and sources at end of table

Section VIII
Table 11c

Twenty Leading Companies-- U.S. Refining Capacity
(Thousands of Barrels per Day)

(a) Includes volumes from Gulf's Bayamon refinery in Puerto Rico.
(b) Includes volumes from Sun's Yabucoa refinery in Puerto Rico.
(c) Includes Puerto Rico.
(d) Unocal Corporation is the parent of Union Oil Company of California.
(e) Southland acquired the refining, marketing and transportation sections of Citgo Petroleum Corp., a subsidiary of Occidental, on September 1, 1983
(f) Standard Oil of California acquired the Gulf Corporation on June 15, 1984 and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure reflects this acquisition which also includes volumes from a refinery in Bayamon, Puerto Rico.
(g) Texaco acquired Getty Oil Company on March 1
(h) Includes 38 mbd from a refinery in San Juan, Puerto Rico.
(i) BP America was formed in 1987 through the acquisition of The Standard Oil Company by BP North America Inc.
(j) Texaco's figure includes 615,000 b/d from Star Enterprise, a joint venture formed on December 31, 1988 between Texaco and Aramco Services (the Saudi Arabian Oil Company)
(k) Sun's figure includes 85,000 b/d from a refinery in Yabucoa, Puerto Rico and 125,000 b/d from Sun's acquisition of Atlantic Petroleum Corporation's operations on November 1, 1988.
(l) Petroleos de Venezuela, the Venezuelan national oil company, owns one-half of Citgo Petroleum and one-half of Champlin Refining Company. In 1988, Citgo's operable refining capacity averaged 305,000 b/d, and Champlin's averaged 130,000 b/d.
(m) Texaco's figure includes its equity portion of 295,000 b/d from Star Enterprise, a joint venture with Aramco Services.
(n) ARCO's figure includes the 49.9% share of the Lyondell Petrochemical Company (approximately 145,000 b/d) retained afer ARCO sold its majority interest in Lyondell in January 1989.
(o) On January 1, 1989 Petroleos de Venezuela (PDV) acquired the other equity share of Champlin Refining Company from Union Pacific Resources. On December 1, 1989 PDV acquired half of UNO-VEN, a joint venture formed with Unocal Corporation. PDV also owns one-half of Citgo Petroleum; the Southland Corporation owns the other half. In 1989 UNO-VEN's operable refining capacity averaged 147,000 b/d, and Citgo's averaged 282,000 b/d.
(p) In January 1989 Coastal sold half of its West Coast refining and marketing properties, including Pacific Refining Company (55,000 b/d operable refining capacity) to the China National Chemicals Import & Export Corporation (Sinochem)
(q) Unocal's figure includes its equity share of UNO-VEN's operations (73,000 b/d operable refining capacity), a joint venture formed on December 1, 1989 with PDV.
(r) Aramco's figure represents the operable refining capacity from its equity share of Star Enterprise, a joint venture with Texaco.

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R

United States Gas Processing Capacities and Average Production(a)

	1984			1985			1986			1987		
State	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
Alabama	5	182.0	599.6	5	182.0	403.2	5	167.0	401.2	5	173.0	379.3
Alaska	2	62.0	56.8	2	62.0	50.3	2	82.0	39.0	3	3,382.0	41.3
Arkansas	3	130.0	82.9	5	1,005.0	104.6	6	962.5	104.6	5	953.0	94.1
California	37	1,483.1	1,280.1	34	1,167.6	1,267.3	36	1,066.0	1,340.3	36	1,015.2	1,277.0
Colorado	44	858.0	1,008.7	43	876.2	1,085.2	47	1,004.9	1,038.3	43	1,016.2	887.1
Florida	3	961.5	374.0	3	934.0	353.9	3	799.0	454.8	2	790.0	428.6
Illinois	2	551.5	985.8	2	551.5	985.2	0	0.0	0.0	0	0	0
Kansas	25	4,901.5	1,942.4	27	5,124.0	2,480.2	28	5,646.0	2,280.8	26	5,429.5	2,264.6
Kentucky	2	897.6	431.2	2	916.0	440.9	3	916.0	481.0	2	71.0	214.8
Louisiana	106	22,194.5	9,852.3	97	22,983.5	11,253.5	94	20,366.4	10,085.2	86	19,941.6	10,129.7
Michigan	6	449.4	926.4	9	675.4	1,095.0	26	4,734.9	963.8	27	4,744.6	1,021.1
Mississippi	7	1,005.0	51.6	6	995.0	55.1	6	995.0	55.5	5	899.0	45.9
Montana	8	58.0	95.8	9	70.0	113.1	9	70.0	120.0	7	52.0	86.5
Nebraska	2	13.5	11.9	2	13.5	11.6	2	13.5	10.5	2	3.5	6.5
New Mexico	44	3,683.3	3,845.4	39	3,255.2	3,954.7	34	3,141.6	3,461.7	30	3,435.4	4,566.4
North Dakota	9	306.8	520.3	11	314.2	663.0	10	284.3	537.6	11	346.7	558.5
Ohio	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
Oklahoma	104	4,857.6	5,570.3	110	4,884.9	6,243.9	108	4,989.8	5,692.2	109	4,949.0	5,432.2
Pennsylvania	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
Texas	415	23,504.6	24,782.4	399	21,071.0	26,638.5	384	19,630.8	26,548.6	357	19,045.5	25,659.2
Utah	10	520.5	372.3	11	521.5	377.6	11	531.5	340.9	11	516.5	318.4
West Virginia	6	410.0	698.0	6	416.0	715.9	7	430.0	794.4	7	379.0	766.5
Wyoming	40	1,912.6	1,683.1	39	1,815.2	1,801.6	41	1,897.9	1,627.7	36	1,668.4	1,459.7
TOTAL U.S.	880	68,943.0	55,171.3	861	67,833.7	60,094.3	862	67,729.1	56,378.1	810	68,811.1	63685.0 (c)

See notes and sources at end of table

United States Gas Processing Capacities and Average Production(a)

State	1988			1989			1990			1991		
	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
Alabama	6	177.0	412.0	7	255.0	449.7	7	255.0	867.6	7	255.0	959.1
Alaska	4	3,385.5	2,188.4	3	3,333.5	2,160.2	4	4,073.5	2,359.2	4	5,773.5	2,739.2
Arkansas	5	943.0	76.4	4	933.0	90.4	4	933.0	73.7	5	938.0	75.6
California	36	1,028.9	1,299.1	34	999.7	1,347.9	34	1,032.7	1,201.2	32	1,090.7	1,144.0
Colorado	37	925.2	770.1	38	982.5	905.4	42	1,101.5	1,186.1	43	1,095.5	1,227.2
Florida	2	790.0	409.4	2	790.0	338.3	2	890.0	358.0	2	890.0	310.3
Illinois	0	0	0	0	0.0	0	0	0	0	0	0.0	0
Kansas	25	5,592.5	2,615.8	24	5,562.5	2,749.7	25	5,448.1	2,531.2	23	5,191.0	2,897.2
Kentucky	2	71.0	162.6	2	71.0	169.3	2	71.0	117.5	2	71.0	163.3
Louisiana	79	19,492.5	10,197.9	77	18,921.1	9,962.6	80	18,720.5	9,674.8	75	18,666.0	9,832.4
Michigan	28	4,744.1	939.1	29	4,763.1	877.4	31	4,824.1	804.7	28	4,757.3	664.8
Mississippi	6	901.0	54.8	6	901.0	39.0	7	902.2	44.5	6	898.2	41.0
Montana	6	22.0	76.0	7	27.0	89.5	7	27.0	89.4	7	28.0	63.1
Nebraska	2	3.5	7.2	1	1.5	0.4	1	1.5	0.4	0	0.0	0.0
New Mexico	27	3,310.8	4,281.5	28	3,346.4	5,356.3	28	3,176.0	5,091.9	28	2,655.5	5,349.8
North Dakota	9	308.0	483.4	8	193.6	463.5	8	165.0	384.7	8	128.0	399.2
Ohio	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	1	20.0	6.4
Oklahoma	106	4,571.4	5,787.0	101	4,613.5	7,440.0	103	4,433.5	6,765.4	101	4,678.0	7,813.6
Pennsylvania	2	14.0	11.3	2	14.0	11.3	2	14.0	11.8	2	14.0	11.8
Texas	325	17,802.2	24,981.7	311	16,786.0	29,200.9	315	16,621.4	28,247.8	301	16,470.1	28,023.7
Utah	11	485.5	399.8	12	522.5	422.3	12	537.5	299.0	12	522.5	306.4
West Virginia	7	399.0	730.9	7	397.0	779.7	7	397.0	792.6	7	397.5	745.8
Wyoming	39	2,864.0	5,048.0	39	3,333.0	5,318.0	40	3,489.5	3,387.5	40	3,660.3	4,423.7
TOTAL U.S.	764	67,831.1	68,240.4 (c)	742	66,746.9	68,171.8	761	67,114.0	64,289.0	734	68,200.1	67,197.6

See notes and sources at end of table

Section VIII
Table 12b

United States Gas Processing Capacities and Average Production(a)

	1992		
State	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
Alabama	9	713.0	937.8
Alaska	3	6,370.0	3,219.1
Arkansas	3	883.0	45.3
California	28	1,053.2	1,028.8
Colorado	43	1,228.1	1,381.9
Florida	2	890.0	142.6
Illinois	0	0.0	0.0
Kansas	22	4,961.0	3,333.1
Kentucky	3	141.0	188.8
Louisiana	69	18,810.6	10,632.1
Michigan	27	4,702.9	626.0
Mississippi	6	898.2	50.0
Montana	7	31.5	53.2
Nebraska	0	0.0	0.0
New Mexico	28	2,797.8	5,739.3
North Dakota	8	186.9	390.5
Ohio	1	20.0	6.1
Oklahoma	108	5,141.7	8,816.1
Pennsylvania	2	14.0	11.8
Texas	303	17,006.7	29,701.7
Utah	14	459.5	294.1
West Virginia	7	397.5	873.3
Wyoming	39	3,649.0	4,186.4
TOTAL U.S.	732	70,355.6	71,658.0

(a) Capacities as of January 1, production for the preceeding 12 months.

(b) Products include ethane, propane, butane, normal or unsplit butane LP-gas mix, raw NGL mix, debut natural gasoline and other.

(c) Includes data from Phillips Petroleum Co., Bartlesville, Okla., not provided in state-by-state totals.

SOURCE: Oil and Gas Journal, Annual Gas Processing Report issue.

Section VIII
Table 13

World Gas Processing Capacities and Average Production(a)

Country	1984			1985			1986			1987		
	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
Algeria	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0
Argentina	11	1,715.9	1,656.2	11	1,715.9	1,656.2	11	1,715.9	1,701.7	11	1,715.0	1,697.9
Australia	4	1,707.0	1,932.0	4	1,707.0	1,920.0	5	2,070.0	6,284.0	5	2,007.0	6,005.0
Austria	2	5.7	0.9	2	5.7	0.3	2	5.7	0.0	2	5.7	--
Bahrain	1	127.7	353.8	1	145.0	354.9	1	143.0	335.4	1	168.0	363.3
Bangladesh	0	0.0	0.0	8	460.0	16.2	8	460.0	16.2	8	460.0	16.2
Bolivia	2	474.0	32.6	2	474.0	32.6	2	474.0	32.6	2	474.0	364.0
Brazil	5	295.3	448.6	5	312.0	598.3	6	369.4	711.7	6	369.4	711.7
Brunei	1	48.0	49.6	2	998.0	314.4	2	998.0	319.6	2	998.0	344.0
Canada	346	19,465.3	14,209.1	385	22,001.8	15,133.4	403	22,807.9	17,381.7	419	23,460.2	15,835.3
Chile	2	445.0	436.1	2	470.0	452.0	2	470.0	452.0	2	470.0	422.0
China, Taiwan	4	271.0	132.5	4	271.0	132.5	4	271.0	110.3	4	271.0	106.3
Colombia	2	125.0	187.0	2	125.0	187.0	2	125.0	157.9	4	238.0	267.1
Denmark	0	0.0	0.0	1	405.0	0.0	1	405.0	0.9	1	450.0	50.0
Dominican Rep.	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2
Ecuador	2	0.0	11.5	2	0.0	11.5	2	0.0	11.5	2	0.0	11.5
Egypt	4	553.0	1,797.1	7	826.0	928.3	7	969.0	1,122.2	7	1,019.0	1,326.6
France	1	1,024.0	761.0	1	900.0	740.0	1	777.0	666.0	1	570.0	541.0
Germany	5	542.9	0.0	5	542.9	0.0	5	542.9	0.0	5	542.9	0.0
Greece	1	9.8	16.0	2	39.0	83.0	1	10.5	85.0	1	10.5	85.0
Hungary	12	732.7	831.4	12	788.5	911.2	12	855.9	1,068.4	12	947.1	1,065.3
Indonesia	5	587.8	1,005.2	10	933.2	1,639.9	10	884.3	1,446.5	10	884.3	1,542.6
Italy	14	5,560.0	491.9	16	7,101.0	220.0	16	7,101.0	220.0	17	7,249.0	194.1
Kuwait	1	1,680.0	1,772.0	1	1,680.0	1,772.0	1	1,680.0	1,772.0	1	1,680.0	1,772.0
Libya	7	1,851.0	6,165.8	7	1,851.0	1,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8
Malaysia	0	0.0	0.0	1	250.0	1,111.0	2	282.0	406.0	2	282.0	465.0
Mexico	9	3,807.0	10,679.8	9	3,807.0	10,679.8	10	4,334.0	10,017.3	10	4,334.0	10,017.3
Netherlands	1	330.0	6.3	1	440.0	6.0	1	440.0	4.2	1	440.0	5.5
New Zealand	1	96.0	26.5	1	96.0	34.7	1	96.0	34.7	2	248.0	40.0
Norway	0	0.0	0.0	1	350.0	160.0	2	950.0	368.4	2	950.0	1,399.1
Oman	--	--	--	--	--	--	--	--	--	0	0.0	0.0
Pakistan	5	1,215.0	32.2	5	950.0	62.4	5	950.0	62.4	5	950.0	62.4
Peru	3	50.0	44.2	3	70.0	28.1	2	70.0	38.7	2	70.0	38.7
Qatar	2	580.0	696.5	2	578.7	1,777.9	2	580.0	1,096.0	2	560.0	1,028.1
Saudi Arabia	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	1,176.0
Spain	--	--	--	--	--	--	--	--	--	0	0.0	0.0
Thailand	--	--	--	--	--	--	--	--	--	--	--	--
Trinidad & Togago	--	--	--	--	--	--	--	--	--	--	--	--
United Arab Emir.	5	2,298.0	4,106.3	7	3,328.0	4,791.3	7	3,408.0	4,715.7	8	3,848.0	4,435.5
United Kingdom	5	2,435.0	2,424.3	5	2,235.0	2,418.1	7	2,648.2	2,627.5	7	2,648.2	2,567.9
Venezuela	14	2,696.0	2,788.6	14	2,696.0	2,788.6	17	4,251.0	2,566.8	17	4,251.0	2,566.8
Yemen	--	--	--	--	--	--	--	--	--	--	--	--
Total (ex. U.S.)	487	60,363.3	60,630.2	551	68,187.9	59,662.6	577	72,630.9	69,534.3	598	74,056.5	69,048.2

See notes and sources at end of table

Section VIII
Table 13a

World Gas Processing Capacities and Average Production(a)

Country	1988			1989			1990			1991		
	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gas/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)	No. of Plants	Gas Capacity (MMcfd)	Product Production(b) (000 gal/day)
Algeria	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0	4	5,335.2	6,082.0
Argentina	13	1,344.8	1,794.0	13	1,344.8	1,794.0	14	1,488.4	1,840.3	14	1,488.4	1,840.0
Australia	5	2,573.0	3,619.0	5	2,573.0	3,487.8	5	2,573.0	3,487.8	5	2,333.0	3,487.8
Austria	2	19.7	10.7	1	17.5	55.1	1	17.5	55.1	1	17.5	55.1
Bahrain	1	168.0	367.0	1	168.0	367.0	1	168.0	25.6	1	168.0	25.6
Bangladesh	2	240.0	8.2	2	240.0	8.2	2	240.0	8.2	2	240.0	8.2
Bolivia	2	474.0	364.0	2	474.0	364.0	2	474.0	364.0	2	474.0	364.0
Brazil	10	437.8	1,056.3	10	437.8	1,056.3	11	449.7	874.5	11	452.3	668.1
Brunei	2	1,032.0	304.1	2	1,032.0	311.6	2	1,032.0	311.6	2	1,132.0	272.9
Canada	449	24,656.6	16,683.7	486	25,187.0	19,179.3	512	24,925.8	21,950.9	540	26,444.3	22,026.5
Chile	2	470.0	420.8	2	470.0	416.0	2	470.0	416.0	2	470.0	416.0
China, Taiwan	4	271.0	106.3	4	271.0	108.1	4	270.3	78.2	4	271.0	65.6
Colombia	5	323.1	321.3	5	323.0	321.3	6	348.0	358.6	7	366.4	327.2
Denmark	1	450.0	100.0	1	450.0	100.0	1	450.0	100.0	1	450.0	100.0
Dominican Rep.	1	0.0	277.2	1	0.0	277.2	1	0.0	277.2	0	0.0	0.0
Ecuador	2	41.0	134.4	2	41.0	134.4	2	41.0	134.4	2	41.0	134.4
Egypt	9	1,449.0	1,973.3	8	1,320.0	1,953.0	8	1,320.0	1,850.2	8	1,323.0	1,930.4
France	1	570.0	541.0	1	570.0	541.0	1	570.0	541.0	1	570.0	541.0
Germany	5	399.0	0.0	4	385.0	0.0	3	366.0	0.0	3	366.0	0.0
Greece	1	10.5	86.6	2	39.0	72.0	2	39.0	72.0	2	40.0	110.3
Hungary	12	1,078.1	1,153.8	12	1,078.1	1,153.8	12	1,097.2	1,432.2	12	1,097.2	1,432.2
Indonesia	8	630.5	980.6	10	2,797.5	2,505.9	10	3.900.5	2,020.4	10	3,905.0	1,822.0
Italy	17	7,166.0	63.7	17	7,614.0	18.2	17	7,614.0	18.2	17	7,614.0	18.2
Kuwait	1	560.0	3,513.8	1	1,815.0	3,513.8	1	1,815.0	3,513.8	3	1,815.0	3,513.8
Libya	7	1,851.0	6,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8	7	1,851.0	6,165.8
Malaysia	2	282.0	465.0	2	282.0	503.2	2	282.0	503.2	2	282.0	503.2
Mexico	10	4,334.0	10,017.3	11	4,649.0	12,714.4	11	4,649.0	12,714.4	11	4,649.0	15,189.2
Netherlands	1	440.0	4.9	1	350.0	1.8	1	350.0	4.2	1	440.0	6.1
New Zealand	3	852.0	48.0	4	1,152.0	879.9	6	1,152.0	927.9	6	1,444.0	927.9
Norway	2	950.0	1,597.0	2	950.0	1,439.0	2	950.0	1 439.0	2	950.0	1,531.0
Oman	8	626.0	245.0	8	626.0	245.0	8	626.0	245.0	8	626.0	245.0
Pakistan	6	1,095.0	49.1	6	430.0	64.0	7	430.0	64.0	6	1,275.0	127.8
Peru	2	70.0	42.9	2	70.0	42.9	2	70.0	42.9	2	70.0	42.9
Qatar	2	579.0	932.2	2	579.0	863.1	2	579.0	863.1	2	579.0	993.0
Saudi Arabia	5	4,300.0	1,176.0	5	4,300.0	1,176.0	5	4,300.0	0.0	5	4,300.0	0.0
Spain	3	428.0	94.0	3	428.0	73.0	3	428.0	73.0	3	428.0	73.0
Thailand	--	--	--	2	850.0	492.8	2	850.0	492.8	2	850.0	492.8
Trinidad & Togago	--	--	--	--	--	--	--	--	--	--	--	--
United Arab Emir.	8	2,922.0	3,131.1	8	2,922.0	3,009.5	8	2,922.0	2,939.5	9	2,989.0	2,853.5
United Kingdom	10	4,070.2	2,489.8	8	3,732.0	3,853.3	9	3,732.0	2,573.3	10	7,910.0	2,420.6
Venezuela	14	2,913.0	4,201.9	14	2,913.0	4,201.9	14	2,913.0	4,201.9	14	2,913.0	4,201.9
Yemen	--	--	--	1	400.0	86.0	1	400.0	309.0	1	400.0	359.1
Total (ex. U.S.)	642	75,411.5	70,621.8	682	80,466.9	78,359.0	714	81,488.6	79,371.2	745	88,369.3	81,374.1

See notes and sources at end of table

World Gas Processing Capacities and Average Production(a)

Country	1992 No. of Plants	 Gas Capacity (MMcfd)	 Product Production(b) (000 gal/day)
Algeria	4	5,335.2	6,082.0
Argentina	14	1,488.4	1,840.3
Australia	5	2,333.0	3,485.0
Austria	1	17.5	55.1
Bahrain	1	168.0	25.6
Bangladesh	2	240.0	8.2
Bolivia	2	474.0	364.0
Brazil	11	452.3	668.1
Brunei	2	1,082.0	247.3
Canada	555	27,306.7	23,999.4
Chile	2	470.0	416.0
China, Taiwan	4	271.0	47.4
Colombia	7	366.4	361.6
Denmark	1	450.0	100.0
Dominican Rep.	0	0.0	0.0
Ecuador	2	41.0	134.4
Egypt	6	1,323.0	1,918.1
France	1	570.0	541.0
Germany	3	366.0	0.0
Greece	2	40.0	105.5
Hungary	12	946.6	1,000.3
Indonesia	10	3,900.0	1,942.4
Italy	17	7,614.0	18.2
Kuwait	3	1,815.0	3,513.8
Libya	7	1,851.0	6,165.8
Malaysia	2	282.0	503.2
Mexico	11	4,649.0	15,189.2
Netherlands	1	440.0	6.0
New Zealand	6	1,441.0	1,199.0
Norway	2	950.0	1,529.0
Oman	6	626.0	245.0
Pakistan	7	1,395.0	127.8
Peru	2	70.0	42.9
Qatar	2	579.0	993.0
Saudi Arabia	5	4,300.0	0.0
Spain	3	428.0	73.0
Thailand	2	850.0	492.8
Trinidad & Togago	1	650	418.3
United Arab Emir.	9	2,989.0	2,836.5
United Kingdom	10	7,910.0	2,420.6
Venezuela	14	2,913.0	4,201.9
Yemen	1	400.0	369.1
Total (ex. U.S.)	762	89,793.1	83,666.8

(a) Capacities as of January 1, production is for the preceeding 12 months
(b) Products include ethane, propane, butane, normal or unsplit butane, LP-gas mix, raw NGL mix, debut natural gasoline and other

SOURCE: Oil and Gas Journal, Annual Gas Processing Report issue.

BASIC PETROLEUM DATA BOOK

SECTION IX. IMPORTS

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Section IX
Table 1

The Share of Imports in United States Domestic Petroleum Demand
(Thousands of Barrels)

Year	Imports	Domestic Demand For Refined Products	Imports as a % of Demand
1947	159,389	1,989,803	8.0%
1948	188,144	2,113,678	8.9%
1949	235,559	2,118,250	11.1%
1950	310,261	2,392,974	13.0%
1951	308,194	2,578,766	12.0%
1952	348,507	2,668,134	13.1%
1953	377,499	2,776,778	13.6%
1954	383,955	2,833,896	13.5%
1955	455,564	3,089,348	14.7%
1956	525,591	3,214,651	16.3%
1957	574,589	3,221,949	17.8%
1958	620,589	3,327,993	18.6%
1959	649,583	3,477,173	18.7%
1960	664,111	3,585,820	18.5%
1961	699,666	3,641,280	19.2%
1962	759,793	3,796,029	20.0%
1963	774,713	3,921,364	19.8%
1964	826,736	4,034,236	20.5%
1965	900,772	4,202,039	21.4%
1966	939,162	4,410,796	21.3%
1967	925,991	4,584,526	20.2%
1968	1,039,369	4,901,789	21.2%
1969	1,155,551	5,159,930	22.4%
1970	1,248,062	5,364,473	23.3%
1971	1,432,880	5,552,560	25.8%
1972	1,735,314	5,990,316	29.0%
1973	2,283,493	6,317,303	36.1%
1974	2,230,947	6,078,239	36.7%
1975	2,210,335	5,957,515	37.1%
1976	2,676,411	6,390,750	41.9%
1977	3,207,106 (a)	6,727,468	47.7%
1978	2,993,847 (a)	6,879,017	43.5%
1979	3,062,053 (a)	6,757,077	45.3%
1980	2,512,636 (a)	6,242,445	40.3%
1981	2,095,122 (a)	5,861,058	35.7%
1982	1,806,165 (a)	5,582,938	32.4%
1983	1,758,457 (a)	5,559,364	31.6%
1984	1,917,897 (a)	5,755,575	33.3%
1985	1,806,304 (a)	5,740,143	31.5%
1986	2,254,019 (a)	5,942,429	37.9%
1987	2,410,842 (a)	6,082,742	39.6%
1988	2,690,382 (a)	6,325,692	42.5%

See notes and sources at end of table

Section IX
Table 1a

The Share of Imports in United States Domestic Petroleum Demand
(Thousands of Barrels)

Year	Imports		Domestic Demand For Refined Products	Imports as a % of Demand
1989	2,921,751	(a)	6,323,684	46.2%
1990	2,916,623	(a)	6,200,801	47.0%
1991	2,783,763	(a)	6,100,550	45.6%

(a) Excludes crude oil imports into Strategic Petroleum Reserve 1977- 7,540, 1978- 58,798, 1979- 23,434
1980- 16,067; 1981-93,298, 1982- 60,193, 1983- 85,285, 1984- 72,038
1985- 43,124, 1986- 17,563, 1987- 26,517, 1988- 18,758, 1989- 20,348, 1990-9,772

SOURCE: 1947-1975 U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids
1976-1980 U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991 U.S. Energy Information Administration, Petroleum Supply Annuals

Section IX
Table 2

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1947	97,532	(a)	(b)	61,857	159,389	1,856,987	132,173	1,989,160
1948	129,093	(a)	(b)	59,051	188,144	2,020,185	146,721	2,166,906
1949	153,686	(a)	(b)	81,873	235,559	1,841,940	157,086	1,999,026
1950	177,714	(a)	(b)	132,547	310,261	1,973,574	181,961	2,155,535
1951	179,073	(a)	(b)	129,121	308,194	2,247,711	204,754	2,452,465
1952	209,591	(a)	(b)	138,916	348,507	2,289,836	223,515	2,513,351
1953	236,455	(a)	(b)	141,044	377,499	2,357,082	238,579	2,595,661
1954	239,479	(a)	(b)	144,476	383,955	2,314,988	252,133	2,567,121
1955	285,421	(a)	(b)	170,143	455,564	2,484,428	281,371	2,765,799
1956	341,833	(a)	(b)	183,758	525,591	2,617,283	292,727	2,910,010
1957	373,255	(a)	(b)	201,334	574,589	2,616,901	294,990	2,911,891
1958	348,007	(a)	(b)	272,582	620,589	2,448,987	294,749	2,743,736
1959	352,344	23,072	(b)	274,167	649,583	2,574,590	320,757	2,895,347
1960	371,575	16,478	(b)	276,058	664,111	2,574,933	340,157	2,915,090
1961	381,548	25,348	(b)	292,770	699,666	2,621,758	361,689	2,983,447
1962	411,039	32,516	(b)	316,238	759,793	2,676,189	372,705	3,048,894
1963	412,660	31,702	(b)	330,351	774,713	2,752,723	400,886	3,153,609
1964	438,643	32,587	(b)	355,506	826,736	2,786,822	422,471	3,209,293
1965	452,040	33,706	(b)	415,026	900,772	2,848,514	441,556	3,290,070
1966	447,120	35,236	(b)	456,806	939,162	3,027,763	468,635	3,496,398
1967	411,649	35,225	(b)	479,117	925,991	3,215,742	514,456	3,730,198
1968	472,323	29,350	(b)	537,696	1,039,369	3,329,042	550,311	3,879,353
1969	514,114	38,766	(b)	602,671	1,155,551	3,371,751	580,241	3,951,992
1970	483,293	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366
1971	613,417	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729
1972	811,135	45,705	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584
1973	1,183,996	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326
1974	1,269,155	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683
1975	1,498,181	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737
1976	1,935,012	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225
1977	2,406,787	11,239	15,003	774,077	3,207,106	3,009,265	590,455	3,599,720
1978	2,261,028	9,913	6,017	716,889	2,993,847	3,178,216	572,086	3,750,302
1979	2,355,107	21,372	4,749	680,825	3,062,053	3,121,310	578,023	3,699,333
1980	1,910,095	20,015	3,781	598,745	2,532,636	3,146,365	575,787	3,722,152
1981	1,511,405	40,793	3,658	539,265	2,095,121	3,128,624	587,119	3,715,743
1982	1,213,021	63,657	2,292	527,195	1,806,165	3,156,715	565,876	3,722,591
1983	1,129,940	85,580	2,355	540,584	1,758,459	3,170,999	568,926	3,739,925
1984	1,181,911	84,496	(b)	651,491	1,917,898	3,249,696	596,477	3,846,173

See notes and sources at end of table

Section IX
Table 2a

Total United States Imports of Petroleum and Petroleum Production (Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1985	1,125,173	115,979	(b)	565,231	1,806,383	3,274,553	587,358	3,861,911
Jan.	77,312	4,815	(b)	47,834	129,961	270,926	50,454	321,380
Feb.	56,277	6,446	(b)	44,108	106,831	252,695	45,446	298,141
Mar.	84,875	9,109	(b)	49,388	143,372	281,943	49,602	331,545
Apr.	98,798	12,106	(b)	45,333	156,237	271,299	47,457	318,756
May	108,740	15,788	(b)	47,640	172,168	283,093	49,408	332,501
Jun.	91,009	11,027	(b)	41,206	143,242	270,653	47,909	318,562
Jul.	92,290	11,220	(b)	42,931	146,441	277,410	48,606	326,016
Aug.	92,962	13,142	(b)	36,559	142,663	272,881	49,423	322,304
Sep.	92,523	8,771	(b)	45,696	146,990	268,610	47,252	315,862
Oct.	99,751	8,240	(b)	50,136	158,127	278,068	49,914	327,982
Nov.	118,374	8,552	(b)	54,974	181,900	267,059	49,808	316,867
Dec.	112,260	6,762	(b)	59,428	178,450	279,916	52,079	331,995
1986	1,507,415	91,269	(b)	655,335	2,254,019	3,168,252	566,000	3,734,252
Jan.	106,031	8,464	(b)	56,663	171,158	283,248	53,031	336,279
Feb.	82,434	4,675	(b)	43,166	130,275	256,855	47,495	304,350
Mar.	90,806	7,468	(b)	45,965	144,239	279,413	49,734	329,147
Apr.	108,631	9,034	(b)	43,629	161,294	265,917	45,686	311,603
May	130,653	9,928	(b)	56,712	197,293	273,964	47,827	321,791
Jun.	137,140	7,720	(b)	58,663	203,523	258,700	45,115	303,815
Jul.	144,891	6,956	(b)	61,726	213,573	268,448	46,728	315,176
Aug.	149,064	6,233	(b)	65,340	220,637	259,580	44,784	304,364
Sep.	149,516	7,879	(b)	53,888	211,283	249,843	44,050	293,893
Oct.	135,850	7,138	(b)	55,120	198,108	260,984	45,778	306,762
Nov.	137,090	8,284	(b)	51,025	196,399	252,374	47,083	299,457
Dec.	135,309	7,490	(b)	63,438	206,237	258,926	48,689	307,615
1987	1,679,405	109,298	(b)	622,139	2,410,842	3,047,378	582,291	3,629,669
Jan.	133,081	5,883	(b)	55,122	194,086	262,888	49,055	311,943
Feb.	107,019	8,697	(b)	50,608	166,324	234,880	45,306	280,186
Mar.	114,219	10,797	(b)	51,655	176,671	262,398	49,529	311,927
Apr.	122,266	9,348	(b)	44,023	175,637	254,945	47,688	302,633
May	131,692	8,745	(b)	44,957	185,394	258,426	49,150	307,576
Jun.	142,285	12,906	(b)	45,958	201,149	248,356	47,352	295,708
Jul.	161,764	7,786	(b)	63,302	232,852	255,782	49,037	304,819
Aug.	168,843	8,448	(b)	51,816	229,107	254,508	48,701	303,209
Sep.	151,395	8,179	(b)	53,848	213,422	246,163	47,450	293,613
Oct.	157,629	9,800	(b)	49,903	217,332	259,272	49,670	308,942
Nov.	147,494	8,310	(b)	53,332	209,136	251,915	49,103	301,018
Dec.	141,718	10,399	(b)	57,614	209,731	257,844	50,250	308,094

See notes and sources at end of table

Section IX
Table 2b

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1988	1,850,247	131,599	(b)	708,536	2,690,382	2,979,123	594,692	3,573,815
Jan.	142,444	12,045	(b)	66,051	220,540	255,743	48,939	304,682
Feb.	133,433	8,508	(b)	67,048	208,989	242,848	46,547	289,395
Mar.	150,210	9,546	(b)	54,816	214,572	259,587	50,725	310,312
Apr.	152,687	12,957	(b)	50,142	215,786	248,629	48,529	297,158
May	164,830	12,634	(b)	53,389	230,853	255,089	50,442	305,531
Jun.	157,560	12,327	(b)	45,173	215,060	245,102	48,477	293,579
Jul.	156,810	12,454	(b)	55,650	224,914	249,229	50,156	299,385
Aug.	156,970	10,138	(b)	61,053	228,161	250,459	50,096	300,555
Sep.	153,849	9,363	(b)	59,451	222,663	236,847	48,630	285,477
Oct.	170,737	10,253	(b)	60,395	241,385	248,704	51,496	300,200
Nov.	149,425	13,187	(b)	66,145	228,757	240,700	49,881	290,581
Dec.	161,292	8,187	(b)	69,222	238,701	246,189	50,662	296,851
1989	2,112,413	126,903	(b)	682,435	2,921,751	2,778,773	564,125	3,342,898
Jan.	173,487	10,689	(b)	69,718	253,894	246,056	51,597	297,653
Feb.	146,174	11,228	(b)	65,115	222,517	218,076	44,995	263,071
Mar.	153,767	8,849	(b)	66,191	228,807	234,822	51,152	285,974
Apr.	170,712	12,917	(b)	56,922	240,551	233,147	50,221	283,368
May	175,210	11,420	(b)	52,090	238,720	242,303	50,219	292,522
Jun.	177,611	10,985	(b)	49,064	237,660	228,731	45,207	273,938
Jul.	190,301	10,780	(b)	56,031	257,112	230,766	47,786	278,552
Aug.	202,529	11,013	(b)	50,830	264,372	233,878	46,612	280,490
Sep.	179,078	11,783	(b)	47,453	238,314	226,436	44,410	270,846
Oct.	190,630	10,741	(b)	54,820	256,191	231,036	45,816	276,852
Nov.	183,917	9,779	(b)	55,319	249,015	226,082	44,485	270,567
Dec.	168,997	6,719	(b)	58,882	234,598	227,439	41,625	269,064
1990	2,141,615	150,828	(b)	624,180	2,916,623	2,684,687	568,999	3,253,686
Jan.	191,830	13,657	(b)	78,146	283,633	233,931	47,773	281,704
Feb.	164,717	11,219	(b)	58,584	234,520	209,923	43,966	253,889
Mar.	188,271	12,059	(b)	43,865	244,195	230,434	47,318	277,752
Apr.	173,254	10,845	(b)	49,353	233,452	222,215	44,777	266,992
May	197,304	13,148	(b)	57,875	268,327	227,179	46,573	273,752
Jun.	192,205	13,546	(b)	56,156	261,907	213,175	43,741	256,916
Jul.	212,514	10,935	(b)	57,047	280,496	222,371	46,011	268,382
Aug.	197,504	11,700	(b)	53,313	262,517	225,886	48,816	274,702
Sep.	169,907	11,763	(b)	39,170	220,840	216,715	47,908	264,623
Oct.	159,080	12,943	(b)	36,196	208,219	233,799	51,691	285,490
Nov.	152,549	16,759	(b)	40,775	210,083	221,598	50,709	272,307
Dec.	142,930	12,254	(b)	44,427	199,611	227,463	49,716	277,179

See notes and sources at end of table

Section IX
Table 2c

Total United States Imports of Petroleum and Petroleum Production
(Thousands of barrels)

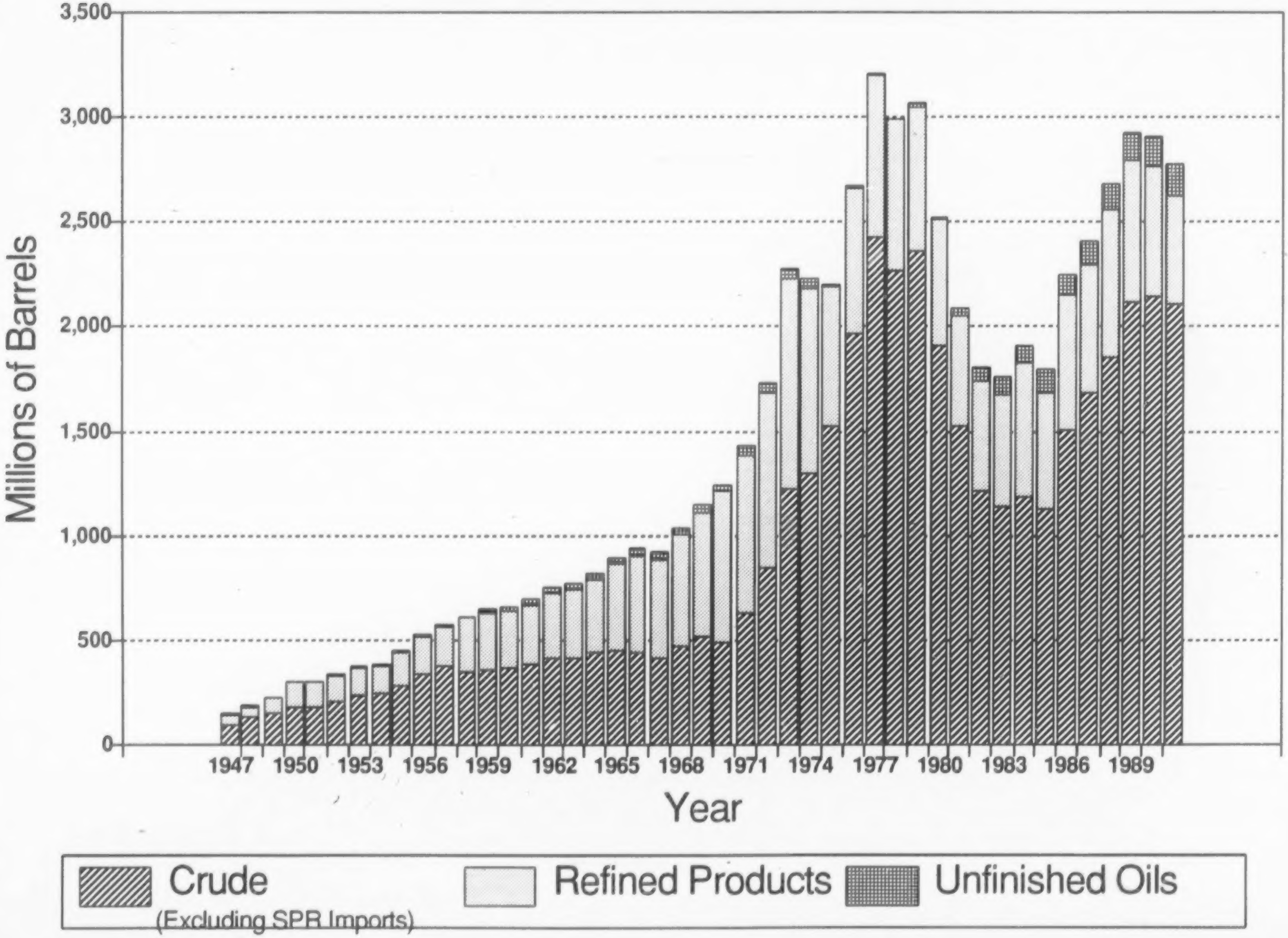
	Imports					Production		
Year	Crude Oil(c)	Unfinished Oils	Plant Condensate	Refined Products(d)	Total All Imports(c)	Crude Oil and Condensate	Natural Gas Liquids	Total
1991	2,110,532	150,736	(b)	522,495	2,783,763	2,707,039	605,658	3,312,697
Jan.	164,167	14,159	(b)	41,879	220,205	232,498	51,044	283,542
Feb.	153,588	8,612	(b)	30,030	192,230	213,836	47,462	261,298
Mar.	160,149	8,899	(b)	36,983	206,031	233,926	52,185	286,111
Apr.	165,877	10,460	(b)	46,190	222,527	225,256	49,936	275,192
May	197,257	16,109	(b)	50,700	264,066	229,670	51,354	281,024
Jun.	190,019	8,792	(b)	48,528	247,339	219,610	48,821	268,431
Jul.	184,597	16,311	(b)	39,510	240,418	227,756	50,272	278,028
Aug.	205,988	12,959	(b)	49,812	268,759	226,801	50,434	277,235
Sep.	174,347	16,315	(b)	44,131	234,793	221,029	46,687	267,716
Oct.	176,182	12,591	(b)	42,718	231,491	230,557	52,264	282,821
Nov.	165,853	15,758	(b)	46,843	228,454	219,833	50,921	270,754
Dec.	172,508	9,771	(b)	45,171	227,450	226,267	52,278	278,545
1992(p)								
Jan.	182,424	14,288	(b)	38,659	235,371	228,253	52,271	280,524
Feb.	145,966	9,040	(b)	40,675	195,681	213,813	49,115	262,928
Mar.	164,876	14,934	(b)	38,318	218,128	226,775	52,545	279,320
Apr.	183,391	16,024	(b)	42,582	241,997	218,720	51,108	269,828
May	186,766	12,824	(b)	40,777	240,367	220,400	52,746	273,146

(a) Separate data not available prior to 1959
(b) Separate data available for 1970 to 1983 only.
(c) Excludes crude oil imported into the Strategic Petroleum Reserve.
(d) Excludes unfinished oils and plant condensate.
(p) Preliminary

SOURCE: 1947-1964: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues
1965-1980: U.S. Energy Informaton Administration, Annual Petroleum Statements.
1981-1992: U.S. Energy Information Administration, Petroleum Supply Annuals and Monthlies.

U.S. PETROLEUM IMPORTS

Section IX
Table 2d



Source: US Bureau of Mines, US Department of Energy

United States Crude Oil Imports by Area
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1947	97,146	--	386	--	97,532
1948	105,912	--	23,181	--	129,093
1949	116,736	--	36,950	--	153,686
1950	136,096	--	41,618	--	177,714
1951	138,074	--	37,501	3,498	179,073
1952	147,771	--	56,556	5,264	209,591
1953	141,552	--	80,934	13,969	236,455
1954	148,010	--	77,764	13,705	239,479
1955	173,136	--	100,344	11,941	285,421
1956	225,007	--	103,517	13,309	341,833
1957	261,736	--	87,798	23,719	373,253
1958	199,256	--	123,019	25,732	348,007
1959	212,707	--	115,875	23,762	352,344
1960	230,229	1,451	113,175	26,720	371,575
1961	237,995	1,887	118,997	22,669	381,548
1962	267,680	9,808	109,071	24,480	411,039
1963	278,933	9,173	103,214	21,340	412,660
1964	289,012	17,743	108,841	23,047	438,643
1965	283,377	24,585	121,908	22,170	452,040
1966	289,800	31,543	107,579	18,198	447,120
1967	301,002	20,151	67,977	22,519	411,649
1968	315,977	57,461	72,330	26,555	472,323
1969	337,847	82,380	61,616	32,271	514,114
1970	351,366	44,365	61,892	25,670	483,293
1971	378,102	68,361	124,155	42,799	613,417
1972	421,799	172,105	155,982	61,249	811,135
1973	532,238	285,481	292,988	73,289	1,183,996
1974	446,534	356,121	362,186	104,314	1,269,155
1975	453,772	488,515	409,496	146,398	1,498,181
1976	316,202	716,661	681,184	220,965	1,935,012
1977	328,468	912,631	910,744	262,484	2,414,327
1978	345,624	830,773	832,305	311,124	2,319,826
1979	435,817	911,352	765,249	267,123	2,379,541
1980	379,813	731,342	561,248	253,759	1,926,162
1981	352,373	486,768	447,518	318,044	1,604,703
1982	430,955	282,706	248,560	310,993	1,273,214
1983	497,237	247,555	160,221	310,213	1,215,225
1984	508,983	225,929	168,336	350,701	1,253,949
1985	605,771	213,090	89,583	259,853	1,168,297
1986	670,239	266,946	300,207	287,586	1,524,978
1987	699,301	363,829	359,628	283,164	1,705,922
1988	737,577	370,000	512,685	248,743	1,869,005
1989	781,794	469,676	643,217	238,074	2,132,761

See notes and sources at end of table

United States Crude Oil Imports by Area
(Thousands of Barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total
1990	826,727	451,171	678,056	195,433	2,151,387
1991	886,317	423,148	646,204	154,863	2,110,532

SOURCE 1947-1974 U.S. Bureau of Mines, Crude Petroleum, Petroleum products and Natural Gas Liquids, Annual and December issues.
1975-1980 U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991 U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 4

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Bolivia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Canada	--	--	--	--	463	1,116	2,527	2,565	16,810	42,739	55,131	30,426	33,730	41,349	66,614	85,152
Colombia	10,944	8,542	11,678	16,159	16,312	16,209	15,860	12,415	8,125	9,009	8,366	9,411	12,437	14,799	10,050	8,614
Ecuador	--	--	--	--	--	--	90	300	474	368	933	--	--	--	--	--
Mexico	5,578	3,601	4,797	12,307	13,862	8,483	2,897	3,018	5,510	4,666	2,441	672	112	925	3,655	3,644
Trinidad	--	--	--	--	--	--	--	356	121	566	1,111	120	--	269	152	--
Venezuela	75,499	89,062	99,648	107,019	107,437	121,963	120,178	128,377	140,754	167,050	193,756	158,167	165,883	172,887	155,751	168,993
Total Western Hemisphere	97,146	105,912	116,736	136,096	138,074	147,771	141,552	148,010	173,136	225,007	261,738	199,256	212,707	230,229	237,995	267,680
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Europe	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	284	--	1,543
Angola	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Congo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--	--	--	--	1,167	1,887	1,543
Gabon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Libya	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,722
Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tunisia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zaire																
Total Africa	--	--	--	--	--	--	--	--	--	--	--	--	--	1,451	1,887	9,808
Iran	--	4,507	1,107	111	--	--	--	204	3,202	7,257	6,624	5,348	8,961	13,056	21,970	17,735
Iraq	--	766	341	--	--	705	2,287	2,188	6,988	9,650	4,477	8,972	7,667	6,363	7,362	856
Kuwait	111	3,442	23,445	26,741	21,601	26,444	38,611	41,046	48,954	50,953	51,389	68,098	59,169	47,512	44,311	40,749
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	116	--	--	3,368	3,524	5,511	4,915	2,247	1,513	231	1,649	3,575	9,535
Saudi Arabia	275	14,466	12,057	14,650	15,900	29,407	36,668	27,819	29,050	27,670	21,011	27,081	24,756	28,232	22,501	24,359
United Arab Emirates(b)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Middle East	386	23,181	36,950	41,618	37,501	56,556	80,934	77,764	100,344	103,517	87,798	123,019	115,875	113,175	118,997	109,071
Australia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Borneo	--	--	--	--	3,498	1,624	--	--	--	--	--	4,679	3,739	--	--	--
Indonesia	--	--	--	--	--	3,640	13,969	13,705	11,941	13,309	24,226	21,053	20,023	26,720	22,669	24,480
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Far East	--	--	--	--	3,498	5,264	13,969	13,705	11,941	13,309	23,719	25,732	23,762	26,720	22,669	24,480
U.S.S.R.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Eastern Hemisphere	386	23,181	36,950	41,618	40,999	61,820	94,903	91,469	112,285	116,826	111,517	148,751	139,637	141,346	143,553	143,359
ANNUAL TOTAL(a)	97,532	129,093	153,686	177,714	179,073	209,591	236,455	239,479	285,421	341,833	373,255	348,007	352,344	371,575	381,548	411,039

See notes and sources at end of table

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Bolivia	--	--	--	1,237	7,016	6,866	5,596	534	798	--	891	2,467	1,940	1,849	1,271	308
Canada	90,394	101,607	107,762	126,712	150,409	169,418	203,298	245,258	263,294	312,440	365,370	288,763	219,175	135,690	101,778	90,490
Colombia	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175	1,695	778	--	--	2,041	--	--
Ecuador	--	--	--	--	--	--	--	--	--	5,331	17,229	15,225	20,679	18,671	20,229	13,910
Mexico	3,657	3,577	2,552	--	--	--	--	--	--	--	489	597	25,660	31,670	64,711	115,426
Trinidad	--	--	--	--	--	--	--	265	--	8,626	21,739	23,045	42,097	38,142	48,841	51,974
Venezuela	174,537	174,222	157,852	147,427	131,089	125,737	111,722	97,996	110,574	93,300	125,742	116,437	144,221	88,139	91,331	66,125
Total Western Hemisphere	278,933	289,012	283,377	289,800	301,002	315,977	337,847	351,366	378,102	421,799	532,238	446,534	453,772	316,202	328,468	345,624
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	125	4,923	35,583	61,555
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	1,500	--	1,509	846
Norway	--	--	--	--	--	--	--	--	--	--	--	322	4,552	12,881	17,628	37,815
Total Europe	--	--	--	--	--	--	--	--	--	--	--	322	6,177	17,804	54,720	100,216
Algeria	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685	31,753	43,619	65,764	96,459	149,190	198,468	231,253
Angola	--	--	--	--	--	--	424	--	1,301	5,785	17,753	17,536	26,051	2,426	6,150	2,290
Congo	--	--	--	--	--	--	--	--	--	--	--	670	--	3,142	2,440	5,454
Egypt	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924	3,091	5,296	3,227	1,687	6,311	13,034	7,395
Gabon	--	--	--	--	661	--	--	--	--	--	--	8,552	9,811	9,685	12,632	13,841
Libya	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426	40,069	48,585	1,495	81,403	162,457	256,984	232,897
Nigeria	--	--	5,296	4,114	1,432	3,131	17,958	17,490	34,826	88,887	163,687	254,358	272,265	370,962	412,498	332,035
Tunisia	--	--	--	--	--	--	--	--	1,199	2,520	6,541	4,519	839	5,400	10,425	4,460
Zaire	--	--	--	--	--	--	--	--	--	--	--	--	--	7,088	--	263
Total Africa	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361	172,105	285,481	356,121	488,515	716,661	912,631	830,773
Iran	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576	49,700	78,990	168,956	101,575	109,073	193,415	202,357
Iraq	321	--	5,695	9,447	1,716	--	--	--	3,932	1,315	1,529	--	707	9,542	26,894	22,673
Kuwait	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650	13,205	15,208	1,820	1,444	451	15,434	1,718
Oman	--	--	--	--	--	--	--	--	--	--	--	236	492	10,943	27,140	22,240
Qatar	5,835	7,294	4,346	176	--	--	191	--	--	1,263	2,663	6,189	6,657	8,631	24,281	23,224
Saudi Arabia	28,806	35,464	48,235	45,771	29,679	18,959	12,665	6,140	41,971	63,626	168,525	159,827	256,036	447,071	501,072	416,910
United Arab Emirates(b)	--	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026	26,873	25,764	25,158	42,585	93,105	121,640	140,653
Total Middle East	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155	155,982	292,988	362,186	409,496	681,184	910,744	832,305
Australia	--	--	--	--	--	--	--	--	2,567	327	--	--	--	--	--	--
Borneo	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232	59,633	73,055	103,482	138,270	196,599	184,984	194,620
Malaysia	--	--	--	--	--	--	--	--	--	966	234	510	1,951	5,914	20,257	13,677
Total Far East	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799	60,926	73,289	103,992	140,221	202,513	207,089	210,632
U.S.S.R.	--	--	--	--	--	--	--	--	--	323	--	--	--	648	675	276
Total Eastern Hemisphere	133,727	149,631	168,663	157,320	110,647	156,346	176,267	131,927	235,315	389,336	651,758	822,621	1,044,409	1,618,810	2,085,859	1,974,202
ANNUAL TOTAL(a)	412,660	438,643	452,040	447,120	411,649	472,323	514,114	483,293	613,417	811,135	1,183,996	1,269,155	1,498,181	1,935,012	2,414,327	2,319,826

See notes and sources at end of table

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

Country	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 (c)	1990	1991
Bolivia	328	301	--	--	1,361	260	--	268	--	--	--	--	--
Canada	99,081	73,002	59,904	78,041	100,142	124,687	170,800	208,163	221,981	249,077	230,043	234,516	271,375
Colombia	--	--	--	--	--	--	--	20,715	41,809	38,640	49,615	51,041	44,924
Ecuador	11,010	6,129	13,967	11,788	20,594	17,066	20,334	23,408	8,217	12,240	29,208	13,886	19,199
Mexico	158,908	185,541	171,363	235,298	279,703	241,054	261,019	226,533	219,552	246,545	261,244	251,345	276,864
Trinidad	44,950	42,011	37,186	33,541	30,207	31,939	35,595	34,060	27,408	26,119	26,815	27,803	26,433
Venezuela	106,794	56,950	53,590	56,434	59,854	92,728	111,627	151,937	178,163	160,747	180,598	242,910	243,986
Total Western Hemisphere	435,817	379,813	352,373	430,955	497,237	508,983	605,771	670,239	699,301	737,577	781,794	826,727	886,317
United Kingdom	71,923	63,459	134,766	161,061	133,142	138,246	101,552	115,659	111,060	92,910	58,246	56,497	38,862
Netherlands	2,685	22	1	3	1,039	1,046	--	--	--	--	--	--	--
Norway	27,523	52,727	41,542	37,299	23,836	40,927	11,311	19,403	25,395	22,570	46,390	34,878	27,009
Total Europe	102,316	116,208	176,315	198,371	193,529	180,219	113,096	135,062	136,665	117,363	105,699	92,044	66,945
Algeria	222,042	166,980	95,165	32,714	64,274	71,074	30,524	28,423	41,932	21,123	21,841	23,035	15,990
Angola	14,088	13,389	16,528	15,248	25,763	31,172	37,889	37,076	65,657	74,325	101,943	86,095	92,839
Congo	909	2,658	1,276	456	6,616	12,226	5,962	7,188	5,960	10,747	3,997	1,387	10,598
Egypt	20,205	11,249	12,155	14,683	8,958	3,485	956	3,620	19,884	9,560	5,515	9,005	6,322
Gabon	15,328	9,062	12,633	14,429	21,415	20,838	18,797	8,959	12,655	5,664	17,774	23,349	30,556
Libya	234,173	200,406	115,572	8,452	--	--	--	--	--	--	--	--	--
Nigeria	390,116	307,840	222,981	186,329	109,807	75,669	102,134	159,683	193,004	222,094	292,165	286,126	249,403
Tunisia	6,429	2,801	4,104	3,481	2,564	4	4,259	1,230	--	--	1,767	645	--
Zaire	1,379	4,690	5,977	6,914	8,158	11,460	12,569	9,490	8,128	11,470	9,493	8,468	9,852
Total Africa	911,352	731,342	486,768	282,706	247,555	225,929	213,090	266,946	363,829	370,000	469,676	451,171	423,148
Iran	108,269	3,086	--	12,854	17,575	3,706	9,919	7,078	35,942	25	--	--	11,821
Iraq	32,052	10,328	--	974	3,758	4,554	16,889	29,401	29,842	125,515	161,017	187,485	--
Kuwait	1,898	9,712	--	904	2,641	8,780	1,316	10,106	25,630	29,381	56,536	28,942	2,033
Oman	13,466	8,693	8,702	8,183	12,281	3,755	655	2,897	12,831	2,439	6,671	13,037	1,311
Qatar	11,450	7,920	2,665	2,600	--	1,497	--	4,365	--	--	767	1,293	--
Saudi Arabia	491,514	457,671	406,059	193,536	117,325	113,078	48,044	225,627	234,213	330,194	407,236	436,193	621,766
United Arab Emirates(b)	102,709	63,052	27,950	29,509	6,641	32,966	12,760	13,806	20,602	8,270	7,513	3,300	557
Total Middle East	765,249	561,248	447,518	248,560	160,221	168,336	89,583	300,207	359,628	512,685	643,217	678,056	646,204
Australia	--	--	--	1	--	9,177	7,557	10,973	17,952	21,669	11,237	17,307	7,847
Borneo	--	--	--	--	--	--	--	--	--	--	--	--	--
Indonesia	138,528	114,990	116,126	82,315	115,156	111,404	106,654	108,376	95,775	68,127	57,636	35,912	37,231
Malaysia	18,954	22,213	12,143	6,574	930	--	301	3,883	4,464	6,868	14,079	14,749	8,590
Total Far East	164,807	137,551	128,269	92,848	116,683	126,196	127,539	152,522	146,499	131,380	121,627	103,092	87412
U.S.S.R.	--	--	--	--	--	--	--	2	--	--	--	297	327
Total Eastern Hemisphere	1,943,724	1,546,349	1,252,332	842,263	717,988	744,966	562,526	854,739	1,006,621	1,131,428	1,340,219	1,324,660	1,224,036
ANNUAL TOTAL(a)	2,379,541	1,926,162	1,604,703	1,273,214	1,215,225	1,253,949	1,168,297	1,524,978	1,705,922	1,869,005	2,132,761	2,151,387	2,110,532

See notes and sources at end of table

Section IX
Table 4c

United States Imports of Crude Oil by Country of Origin
(Thousands of Barrels)

(a) Totals reflect countries not individually listed.
(b) Figures from 1947-1971 reflect Abu Dhabi only. Beginning in 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates.
(c) Total also reflects an amount with country of origin not identified.

SOURCE: 1947-1975 U.S. Bureau of Mines, December and Annual Petroleum Statements.
1976-1980 Energy Information Administration, Annual Petroleum Statements.
1981-1991 Energy Information Administration, Petroleum Supply Annual.

United States Imports of Crude Oil by P.A.D. Districts
(Thousands of Barrels)

Year		P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil
1952	(a)	192,349	1,116	4,423	--	11,703	209,591
1953		202,611	2,562	2,871	--	28,411	236,455
1954		213,413	2,772	4,553	--	18,741	239,479
1955		232,850	7,425	11,098	--	34,048	285,421
1956		244,453	19,904	11,917	70	65,489	341,833
1957		247,395	22,296	8,729	86	94,749	373,255
1958		238,769	25,328	16,242	13	67,655	348,007
1959		235,259	21,279	10,184	15	85,607	352,344
1960		244,196	23,265	2,939	20	101,155	371,575
1961		236,905	30,971	2,354	30	111,288	381,548
1962		244,235	34,646	2,489	682	128,987	411,039
1963		248,199	34,666	1,698	3,528	124,569	412,660
1964		252,527	37,801	1,835	4,409	142,071	438,643
1965		258,361	41,264	--	4,807	147,608	452,040
1966		259,499	48,114	449	4,954	134,104	447,120
1967		216,920	56,408	672	6,648	131,001	411,649
1968		263,866	78,365	641	10,058	119,393	472,323
1969		269,007	88,434	--	12,714	143,959	514,114
1970		211,403	115,613	--	17,573	138,704	483,293
1971		252,088	137,064	20,449	16,869	186,947	613,417
1972		354,549	171,338	28,331	14,126	242,791	811,135
1973		466,074	260,368	145,654	16,132	295,768	1,183,996
1974		428,608	250,771	289,999	16,579	283,198	1,269,155
1975		451,549	282,658	437,049	16,090	310,835	1,498,181
1976		517,840	366,107	651,381	19,878	379,806	1,935,012
1977	(b)	553,955	516,775	927,596	15,957	400,044	2,414,327
1978	(b)	542,856	494,132	1,045,691	18,132	219,015	2,319,826
1979	(b)	522,580	556,861	1,083,749	23,656	192,695	2,379,541
1980	(b)	491,292	409,533	854,233	14,268	156,836	1,926,162
1981	(b)	407,384	248,393	828,287	10,513	110,126	1,604,703
1982	(b)	349,583	211,727	628,591	14,625	68,687	1,273,214
1983	(b)	298,070	193,427	632,974	13,959	76,794	1,215,225
1984	(b)	345,642	182,565	639,238	12,233	74,271	1,253,949
1985	(b)	356,697	215,179	517,861	14,056	64,505	1,168,297
1986	(b)	394,490	286,276	756,465	19,613	68,134	1,524,978
1987	(b)	405,596	317,384	887,454	23,563	71,925	1,705,922
1988	(b)	429,968	346,950	994,989	23,456	73,642	1,869,005
1989	(b)	438,409	389,443	1,181,311	26,189	97,409	2,132,761
1990	(b)	441,265	409,783	1,188,027	27,702	84,610	2,151,387
1991		441,340	215,324	1,361,106	30,217	62,545	2,110,532

(a) Figures not available by P.A.D.D. prior to 1952.
(b) Figures include crude oil imported into the Strategic Petroleum Reserve.

SOURCE: 1952-1972: U.S. Bureau of Mines, Minerals Yearbook
1973-1980: U.S. Energy Information Administration, Annual Petroleum Statements
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals

United States Imports of Residual and Distillate Fuel by P.A.D. Districts
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil
1950	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	120,036	2,602
1951	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	119,166	1,767
1952	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	128,479	2,742
1953	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	131,533	3,379
1954	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	129,124	3,195
1955	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	152,035	4,413
1956	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	162,869	5,159
1957	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	173,229	8,566
1958	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	182,306	14,892
1959 (b)	219,341	17,283	230	13	2,981	360	1	2	18	0	222,571	17,658
1960	211,788	11,365	59	12	14,416	1,298	0	96	6,945	0	233,208	12,771
1961	214,453	15,533	284	24	12,320	1,654	1	142	16,210	24	243,268	17,377
1962	237,565	9,811	610	31	11,775	1,892	47	92	14,317	5	264,314	11,831
1963	252,785	7,787	800	63	12,327	1,250	26	1	6,815	9	272,753	9,110
1964	274,306	10,559	804	64	11,204	1,119	45	0	9,412	43	295,771	11,785
1965	318,634	11,041	1,188	17	14,598	1,811	43	0	10,724	133	345,187	13,002
1966	357,907	12,548	860	107	11,708	967	55	0	6,265	223	376,795	13,845
1967	383,260	16,851	587	224	7,475	891	60	0	4,557	526	395,939	18,492
1968	394,528	45,502	573	360	8,271	1,290	54	0	6,502	996	409,928	48,148
1969	440,983	47,720	627	1,264	12,167	937	78	0	7,756	962	461,611	50,883
1970	536,968	49,333	4,207	2,223	11,029	1,192	52	0	5,589	1,078	557,845	53,826
1971	558,771	53,373	3,953	258	6,553	1,079	41	0	8,382	1,073	577,700	55,783
1972	616,990	64,302	5,458	473	6,212	1,191	0	0	8,741	483	637,401	66,449
1973	639,611	125,210	6,068	1,353	10,471	12,406	0	104	20,075	4,076	676,225	143,149
1974	538,573	95,018	7,919	621	11,806	6,766	--	32	20,859	3,142	579,157	105,579
1975	416,105	54,300	14,015	223	3,957	1,441	--	1	12,451	713	446,528	56,678
1976	495,980	49,225	11,720	97	1,728	680	--	--	7,897	3,518	517,325	53,520
1977	467,124	88,177	11,754	55	818	413	--	--	16,369	2,673	496,065	91,318
1978	468,937	59,023	17,101	306	939	210	--	--	7,663	3,749	494,640	63,288
1979	392,861	64,091	14,267	70	2,044	1,568	--	4	10,972	4,756	420,144	70,489
1980	317,157	48,518	10,754	--	6,485	1,268	--	--	9,161	2,122	343,557	51,908
1981	260,156	59,180	8,592	5	14,055	2,634	--	2	9,266	1,251	292,069	63,072
1982	235,912	29,763	3,966	392	35,700	1,526	9	4	7,514	2,355	283,101	34,040
1983	222,276	56,129	5,375	3,075	19,555	2,189	193	488	7,814	1,660	255,213	63,541
1984	218,730	91,885	2,069	2,999	23,488	1,029	158	1,300	4,766	2,227	249,211	99,440
1985	163,779	64,576	907	2,652	16,579	855	131	1,363	4,888	3,643	186,284	73,089
1986	221,943	82,414	1,394	2,857	13,372	864	50	966	7,394	3,195	244,153	90,296
1987	192,337	84,822	1,316	3,394	9,702	2,855	10	804	2,773	1,301	206,138	93,176
1988	212,374	104,576	1,873	2,090	8,554	913	7	1,352	13,052	1,423	235,860	110,354
1989	211,024	104,991	1,614	2,783	6,243	1,142	6	760	10,708	1,998	229,595	111,674

See notes and sources at end of table

United States Imports of Residual and Distillate Fuel by P.A.D. Districts
(Thousands of Barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
Year	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil
1990	162,744	96,227	906	2,254	10,580	630	99	761	9,512	1,583	183,841	101,455
1991	136,371	68,011	886	3,799	20,327	83	38	1,420	7,802	1,465	165,424	74,778

(a) Figures not available by P.A.D. prior to 1959.

(b) Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands.

SOURCE: 1950-1972: U.S. Bureau of Mines, Minerals Yearbook
1973-1974: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products, and Natural Gas Liquids. Annual and December issues.
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals.

Section IX
Table 7

United States Imports of Unfinished Oils and Refined Products by P.A.D. Districts(a)
(Thousands of Barrels)

Year		P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		Totals	
		Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products
1959	(b)	16,628	264,347	587	606	2,148	4,861	--	31	3,709	4,322	23,072	274,167
1960		9,534	248,388	520	1,019	994	16,788	--	121	5,430	9,742	16,478	276,058
1961		18,045	256,484	1,184	1,324	145	15,258	--	180	5,974	19,524	25,348	292,770
1962		22,297	279,475	360	1,746	1,616	15,101	--	154	8,243	19,762	32,516	316,238
1963		21,779	299,530	476	2,193	2,102	14,952	--	39	7,345	13,637	31,702	330,351
1964		21,151	321,994	478	3,552	1,011	13,117	--	159	9,947	16,684	32,587	355,506
1965		23,260	369,760	213	5,739	377	18,073	--	727	9,856	20,727	33,706	415,026
1966		26,743	410,435	43	7,276	15	13,826	--	971	8,435	24,298	35,236	456,806
1967		23,222	434,265	20	7,171	276	9,873	--	879	11,707	26,929	35,225	479,117
1968		21,987	489,628	1	7,573	109	10,618	--	2,253	7,253	27,624	29,350	537,696
1969		28,975	543,947	51	8,245	1,034	15,087	--	2,979	8,706	32,413	38,766	602,671
1970		30,221	651,123 (c)	--	20,022 (c)	913	21,191	--	3,192 (c)	8,127	29,980 (c)	39,261	725,508 (c)
1971		30,651	685,309 (c)	--	22,918 (c)	2,217	17,425	--	7,786 (c)	12,325	43,832 (c)	45,193	777,270 (c)
1972		30,715	761,491 (c)	--	39,798 (c)	1,548	16,474	--	16,623 (c)	13,442	44,088 (c)	45,705	878,474 (c)
1973		26,216	874,707 (c)	739	53,985 (c)	10,681	45,714	--	16,285 (c)	12,525	58,645 (c)	50,161	1,049,336
1974		14,084	757,416 (c)	1,155	49,860 (c)	19,208	43,356 (c)	--	14,143 (c)	9,781	52,789 (c)	44,228	917,564 (c)
1975		6,038	578,739 (c)	392	49,345 (c)	4,170	15,989 (c)	--	12,327 (c)	2,385	42,769 (c)	12,985	699,169 (c)
1976		7,721	619,068	16	34,334	3,750	13,382	--	5,888 (c)	248	32,584	11,735	705,256
1977		9,333	665,984	15	43,912	905	17,422	--	5,922	986	40,659	11,239	773,899
1978		9,022	614,132	15	45,676	226	8,427	--	4,635	650	43,998	9,913	716,868
1979		7,945	545,758	338	68,663	7,687	21,135	--	4,737	5,402	40,532	21,372	680,825
1980		11,489	446,336	217	68,505	5,855	25,986	--	5,222	2,454	32,696	20,015	578,745
1981		18,096	392,310	396	69,554	19,442	39,355	--	7,877	2,858	33,827	40,792	542,923
1982		23,182	355,073	2,708	65,611	35,027	63,820	--	7,141	2,741	37,842	63,657	529,487
1983		32,030	390,381	4,120	62,081	47,060	50,025	604	6,981	1,765	33,471	85,580	542,938
1984		19,936	472,223	3,821	61,098	55,977	73,631	--	8,856	4,762	35,683	84,496	651,490
1985		23,527	399,657	2,985	54,284	88,611	60,507	--	9,190	856	41,593	115,979	565,231
1986		31,039	470,274	--	39,589	58,100	92,858	--	7,666	2,130	44,948	91,269	655,335
1987		41,514	471,083	207	38,783	65,943	75,854	--	6,801	1,634	29,618	109,298	622,139
1988		44,892	526,006	1,105	45,721	82,730	93,474	--	6,805	2,872	36,530	131,599	708,536
1989		44,998	512,431	--	43,189	79,453	95,467	22	4,650	2,430	26,698	126,903	682,435
1990		45,029	450,976	--	37,184	103,906	106,321	5	4,892	1,888	24,807	150,828	624,180
1991		56,590	361,961	0	38,323	91,027	97,095	0	6,035	3,119	19,081	150,736	522,495

(a) Figures include receipts from Puerto Rico and Virgin Islands.
(b) Figures not available by P.A.D. district prior to 1959.
(c) Includes plant condensate.

SOURCE: 1959-1972: U.S. Department of Interior, Mineral Yearbooks
1973-1980: Department of Energy, Annual Petroleum Statements
1981-1991: Department of Energy, Petroleum Supply Annual

Section IX
Table 8

Total United States Petroleum Imports by Source
(Thousands of Barrels Per Day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Western Hemisphere																	
Bahamas	--	--	--	--	--	--	--	--	--	--	--	1	--	32	150	174	174
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608	767	857	1,108	1,325
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69	45	27	16	9
Ecuador	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41	42	27	21	16
Neth. Antilles	273	338	324	300	264	297	312	333	361	332	361	392	450	442	429	424	585
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72	87	95	102	99
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215	217	182	226	255
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876	983	1,019	960	1,135
Virgin Islands	--	--	--	--	--	--	--	--	--	--	36	78	116	189	273	303	329
Other	5	11	8	2	10	9	21	10	11	21	41	46	34	52	18	61	28
Total	1,265	1,267	1,356	1,399	1,493	1,660	1,726	1,815	1,967	2,066	2,145	2,264	2,481	2,856	3,077	3,395	4,003
Eastern Hemisphere																	
Abu Dhabi/United Arab Emirates(a)	--	--	--	--	--	--	--	3	14	13	5	16	14	63	80	73	71
Algeria	--	--	--	--	--	--	--	--	--	--	--	--	--	8	15	92	135
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89	70	111	164	213
Italy	--	8	4	1	--	--	--	1	2	18	28	49	75	83	79	83	125
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46	38	112	142	223
Iraq	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	4	4
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39	36	36	45	47
Libya	--	--	--	--	--	19	19	39	41	69	42	114	135	47	57	123	164
Malaysia	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	1	12
Netherlands	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	12	53
Nigeria	--	--	--	--	--	--	--	--	15	11	5	8	49	50	103	251	459
Norway	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	2	1
Oman	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	N.A.	N.A.
Qatar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	7
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42	42	127	190	486
United Kingdom	--	--	--	--	--	--	--	--	--	--	--	--	--	N.A.	N.A.	10	9
Other	25	81	83	81	103	94	82	93	85	91	70	140	196	134	143	152	244
Total	309	433	424	416	424	422	397	443	501	507	392	576	685	563	848	1,347	2,253
Total U.S. Imports(b)	1,574	1,700	1,780	1,815	1,917	2,082	2,123	2,258	2,468	2,573	2,537	2,840	3,166	3,419	3,925	4,742	6,256

See notes and sources at end of table

Total United States Petroleum Imports by Source (Thousands of Barrels Per Day)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Western Hemisphere																	
Bahamas	164	152	118	167	160	147	76	74	65	125	88	40	37	37	32	34	37
Canada	1,070	846	599	516	467	538	455	447	482	547	630	770	807	848	999	931	934
Colombia	5	9	21	17	20	18	4	..	..	..	..	..	87	148	134	172	182
Ecuador	42	57	51	55	54	42	27	48	42	61	55	67	77	29	47	89	49
Mexico	8	71	87	179	318	439	533	522	685	826	748	816	699	655	747	767	755
Neth. Antilles	511	332	275	214	229	231	225	197	175	189	188	40	25	29	36	42	31
Puerto Rico	90	90	88	105	94	92	88	62	50	40	42	28	21	21	22	32	32
Trinidad	251	242	274	286	253	190	176	133	112	96	94	113	125	106	97	94	96
Venezuela	979	702	700	687	646	690	481	406	412	422	548	605	793	804	794	873	1,025
Virgin Islands	391	406	422	466	428	431	388	327	316	282	294	247	244	272	242	321	282
Other	21	44	13	16	33	50	59	79	84	114	110	143	152	127	149	141	104
Total	3,532	2,951	2,651	2,708	2,701	2,868	2,512	2,216	2,423	2,702	2,797	2,869	3,067	3,076	3,299	3,496	3,527
Eastern Hemisphere																	
Abu Dhabi/United Arab Emirates(a)	74	117	254	333	385	281	172	81	92	30	117	45	44	61	29	28	17
Algeria	190	282	432	552	649	636	488	311	170	240	323	187	271	295	300	269	280
Indonesia	300	389	539	533	573	420	348	366	248	338	343	314	318	285	205	183	114
Italy	74	27	39	51	38	30	4	..	..	..	..	..	76	54	65	34	58
Iran	469	280	298	530	555	304	9	..	35	48	10	27	19	98	..	..	..
Iraq	..	3	26	76	62	88	28	..	3	10	12	46	81	83	345	449	518
Kuwait	5	16	5	48	6	8	27	..	5	14	36	21	68	84	92	157	86
Libya	4	232	453	715	654	658	554	319	26	..	1	4	..	..	..	..	..
Malaysia	12	8	18	63	42	66	70	36	20	4	1	3	12	13	19	39	41
Netherlands	43	18	8	31	5	23	2	30	35	65	65	58	54	60	61	49	55
Nigeria	713	762	1,025	1,135	919	1,080	857	620	514	302	216	293	440	535	618	815	800
Norway	1	17	36	50	104	75	144	119	102	66	114	32	60	80	67	138	102
Oman	1	2	30	79	68	44	25	24	22	34	14	5	9	36	10	19	37
Qatar	17	18	24	67	64	31	22	7	7	..	5	..	13	..	..	2	4
Saudi Arabia	461	715	1,230	1,377	1,144	1,356	1,261	1,129	552	337	325	168	685	751	1,073	1,224	1,339
United Kingdom	8	11	31	124	180	202	176	375	456	382	402	310	350	352	315	215	189
Other	207	208	213	272	324	286	209	363	403	479	656	685	657	815	904	904	850
Total	2,579	3,105	4,662	6,036	5,662	5,588	4,396	3,780	2,690	2,349	2,640	2,198	3,157	3,602	4,103	4,565	4,490
Total U.S. Imports(b)	6,111	6,056	7,313	8,744	8,363	8,456	6,908	5,996	5,113	5,051	5,437	5,067	6,224	6,678	7,402	8,061	8,018

See notes and sources at end of table

Section IX
Table 8b

Total United States Petroleum Imports by Source
(Thousands of Barrels Per Day)

	1991
Western Hemisphere	
Bahamas	35
Canada	1,033
Colombia	163
Ecuador	63
Mexico	807
Neth. Antilles	81
Puerto Rico	27
Trinidad	88
Venezuela	1,035
Virgin Islands	243
Other	53
Total	3,628
Eastern Hemisphere	
Abu Dhabi/United Arab Emirates(a)	3
Algeria	253
Indonesia	111
Italy	47
Iran	32
Iraq	0
Kuwait	6
Libya	--
Malaysia	24
Netherlands	29
Nigeria	703
Norway	82
Oman	10
Qatar	0
Saudi Arabia	1,802
United Kingdom	138
Other	746
Total	3,986
Total U.S. Imports(b)	7,627

(a) Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates

(b) Beginning in 1989, totals reflect an amount with country of origin not identified

NA Not available on an individual country basis, included in "other"

SOURCE: 1957-1969: U.S. Bureau of Mines
1970-1980: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts"
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annual

Section IX
Table 9

U.S. Direct Petroleum Imports from Members of the Organization of Arab Petroleum Exporting Countries September 1973 - April 1974 (Thousands of Barrels)

	September 1973			October 1973			November 1973			December 1973		
OAPEC Members	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
2. Bahrain	--	38	38	--	589	589	--	552	552	--	99	99
3. Egypt	--	--	--	--	--	--	--	--	--	--	--	--
4. Iraq	515	--	515	364	--	364	--	--	--	--	--	--
5. Kuwait	1,334	--	1,334	1,724	--	1,724	--	--	--	--	--	--
6. Libya	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
7. Qatar	1,222	--	1,222	543	--	543	273	--	273	74	--	74
8. Saudi Arabia	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	2,652	--	2,652	1,920	3	1,923	3,197	--	3,197	--	1	1
OAPEC Total	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
U.S. Total	104,117	88,227	192,344	115,905	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
OAPEC as a % of U.S. Total	30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

	January 1974			February 1974			March 1974			April 1974		
OAPEC Members	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	--	--	--	75	--	75	244	--	244	3,448	141	3,589
2. Bahrain	--	--	--	--	3	3	--	--	--	--	--	--
3. Egypt	--	--	--	--	--	--	--	--	--	543	--	543
4. Iraq	--	--	--	--	--	--	--	--	--	--	--	--
5. Kuwait	--	--	--	--	--	--	--	--	--	62	--	62
6. Libya	29	--	29	468	--	468	142	--	142	244	--	244
7. Qatar	--	--	--	--	--	--	--	--	--	--	--	--
8. Saudi Arabia	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
9. Syria	--	--	--	--	--	--	--	--	--	--	--	--
10. United Arab Emirates	304	--	304	--	--	--	--	--	--	405	--	405
OAPEC Total	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
U.S. Total	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
OAPEC as a % of U.S. Total	1.3%	0.1%	0.6%	2.6%	(a)	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

(a) Less than one-tenth of one percent

SOURCE: U.S. Bureau of Mines and U.S. Bureau of Census

Section IX
Table 10

World Oil Movements
(Thousands of Barrels per Day)

1972

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	30	70	65	--	10	40	5	5	--	225
Canada	1,085	--	--	--	--	--	--	--	--	--	1,085
Caribbean	2,270	520	160	545	5	10	10	--	--	100	3,620
Other Western Hemisphere	45	--	25	--	--	--	30	--	--	--	100
Western Europe	160	15	--	--	40	--	--	--	20	90	325
Middle East	475	250	1,115	8,570	460	1,265	3,770	260	605	180	16,950
North Africa	230	30	250	2,730	10	--	5	--	220	--	3,475
West Africa	265	70	290	1,170	--	--	70	--	30	20	1,915
South East Asia	180	--	10	5	10	--	830	55	--	--	1,090
USSR/ Eastern Europe	20	--	130	970	75	--	25	--	40	--	1,260
Other Eastern Hemisphere	10	--	--	5	--	30	5	--	--	--	50
TOTAL IMPORTS	4,740	915	2,050	14,060	600	1,315	4,785	320	920	390	30,095

1973

FROM \ TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	30	55	85	5	25	30	--	--	--	230
Canada	1,335	--	--	--	--	--	--	--	--	--	1,335
Caribbean	2,540	500	130	355	5	5	10	--	--	85	3,630
Other Western Hemisphere	80	--	100	--	--	--	--	--	--	20	200
Western Europe	265	--	--	--	60	--	--	--	10	70	405
Middle East	820	320	1,000	10,350	535	1,315	4,385	290	775	180	19,970
North Africa	360	40	175	2,545	5	--	20	--	265	10	3,420
West Africa	515	90	415	1,030	--	--	110	--	5	--	2,165
South East Asia	240	--	--	10	--	--	1,115	40	--	--	1,405
USSR/ Eastern Europe	35	--	145	935	75	5	55	--	20	15	1,285
Other Eastern Hemisphere	15	--	--	--	--	25	35	--	5	5	85
TOTAL IMPORTS	6,205	980	2,020	15,310	685	1,375	5,760	330	1,080	385	34,130

See notes and sources at end of table

Section IX
Table 10a

World Oil Movements
(Thousands of Barrels per Day)

1974

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	30	60	75	5	5	35	10	--	--	220
Canada	1,025	--	--	20	--	--	--	--	--	--	1,045
Caribbean	2,320	430	155	320	10	--	10	--	--	--	3,245
Other Western Hemisphere	125	--	120	--	--	--	--	--	--	--	245
Western Europe	240	--	--	--	80	--	15	--	35	95	465
Middle East	1,025	400	1,265	10,195	490	1,320	4,050	285	715	305	20,050
North Africa	230	15	130	1,915	10	--	70	--	255	--	2,625
West Africa	795	15	305	1,300	--	30	100	--	--	--	2,545
South East Asia	315	--	45	5	--	--	990	45	--	--	1,400
USSR/ E. Europe & China	30	--	160	1,010	60	--	120	--	20	--	1,400
Other Eastern Hemisphere	20	--	--	--	--	30	40	--	--	--	90
TOTAL IMPORTS	6,125	890	2,240	14,840	655	1,385	5,430	340	1,025	400	33,330

1975

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	20	65	70	5	--	30	10	10	--	210
Canada	800	--	--	--	--	--	--	--	--	--	800
Latin America	2,270	270	120	380	40	--	20	--	75	--	3,175
Western Europe	45	--	--	--	165	--	--	--	35	--	245
Middle East	1,140	540	1,525	8,815	475	1,450	3,675	255	630	--	18,505
North Africa	500	--	140	1,530	--	--	70	--	165	--	2,405
West Africa	850	20	200	835	--	--	70	--	--	--	1,975
East and South Africa	--	--	--	--	--	35	--	--	--	--	35
South Asia	--	--	--	5	--	--	--	--	--	--	5
South East Asia	400	--	80	--	10	--	885	80	--	--	1,455
Japan	--	--	--	5	--	--	--	--	--	--	5
Australasia	5	--	--	--	--	10	35	--	--	--	50
USSR/ E. Europe & China	15	--	210	970	15	70	160	--	30	--	1,470
TOTAL IMPORTS	6,025	850	2,340	12,610	710	1,565	4,945	345	945	--	30,335

See notes and sources at end of table

Section IX
Table 10b

World Oil Movements
(Thousands of Barrels per Day)

1976

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	10	70	80	10	5	30	5	10	--	220
Canada	595	--	--	5	--	--	--	--	--	--	600
Latin America	2,010	320	140	335	10	--	10	5	30	450	3,310
Western Europe	160	--	--	--	100	--	--	--	85	--	345
Middle East	1,910	385	1,725	9,405	490	1,630	3,955	255	710	390	20,855
North Africa	915	20	160	1,680	15	10	45	--	225	--	3,070
West Africa	1,085	30	230	860	--	--	25	--	--	--	2,230
East and South Africa	--	--	--	--	--	30	--	--	--	--	30
South East Asia	585	--	15	5	--	--	1,080	80	--	--	1,765
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	40	--	--	--	55
USSR/ E. Europe & China	20	--	160	1,355	20	100	135	--	25	--	1,815
TOTAL IMPORTS	7,290	765	2,500	13,725	645	1,785	5,320	345	1,085	840	34,300

1977

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	25	105	75	5	--	30	5	5	--	250
Canada	540	--	--	--	--	--	--	--	--	--	540
Latin America	2,205	290	110	290	45	--	10	--	65	100	3,115
Western Europe	250	--	10	--	130	5	--	5	80	--	480
Middle East	2,560	395	1,570	8,855	485	1,600	4,095	240	805	125	20,730
North Africa	1,320	--	150	1,735	5	--	25	--	60	--	3,295
West Africa	1,220	--	275	845	--	--	--	--	30	--	2,370
East and South Africa	--	--	--	--	--	20	--	--	--	--	20
South Asia	--	--	--	--	--	--	--	--	--	--	--
South East Asia	590	--	--	20	5	--	1,155	90	5	50	1,915
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	10	--	--	--	--	5	45	--	--	--	60
USSR/ E. Europe & China	15	--	180	1,475	5	120	150	--	30	--	1,975
TOTAL IMPORTS	8,710	710	2,400	13,295	680	1,755	5,510	340	1,080	275	34,755

See notes and sources at end of table

Section IX
Table 10c

World Oil Movements
(Thousands of Barrels per Day)

1978

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	90	90	85	10	5	30	5	50	--	365
Canada	445	--	--	--	--	--	--	--	--	--	445
Latin America	2,225	290	360	345	25	--	15	--	40	100	3,400
Western Europe	375	--	--	--	135	--	--	--	40	--	550
Middle East	2,300	275	1,525	8,685	425	1,610	4,010	250	515	135	19,730
North Africa	1,310	--	200	1,770	15	--	10	--	65	--	3,370
West Africa	975	--	300	780	60	--	--	--	--	--	2,115
East and South Africa	--	--	--	5	--	5	--	--	--	--	10
South Asia	--	--	--	5	--	--	--	--	--	--	5
South East Asia	570	--	--	20	15	--	1,085	100	--	--	1,790
Japan	5	--	--	--	--	10	--	--	--	--	15
Australasia	10	--	--	--	--	10	35	--	--	--	55
USSR/ E. Europe & China	10	--	200	1,395	25	200	150	--	30	--	2,010
TOTAL IMPORTS	8,225	655	2,675	13,090	710	1,840	5,335	355	740	235	33,860

1979

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	100	225	105	--	15	35	5	--	--	485
Canada	455	--	--	--	--	--	--	--	--	--	455
Latin America	2,410	230	210	270	25	--	10	--	135	355	3,645
Western Europe	350	--	--	--	145	--	--	--	25	--	520
Middle East	2,115	260	1,535	8,685	440	1,745	4,155	285	910	305	20,435
North Africa	1,355	20	120	1,870	20	--	15	--	25	--	3,425
West Africa	1,185	--	390	1,010	60	--	--	--	--	--	2,645
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	10	10	--	20	--	40
South East Asia	530	--	25	25	10	--	1,215	90	20	--	1,915
Japan	--	--	--	--	--	10	--	--	--	--	10
Australasia	10	--	--	--	--	--	15	--	--	--	25
USSR/ E. Europe & China	--	--	200	1,115	35	180	150	--	60	--	1,740
TOTAL IMPORTS	8,410	610	2,705	13,080	735	1,970	5,605	380	1,195	660	35,350

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1980

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	105	290	145	5	10	--	--	--	--	555
Canada	370	--	--	30	--	10	10	--	--	25	445
Latin America	2,050	215	275	625	50	--	80	5	235	350	3,885
Western Europe	355	5	--	--	85	5	--	--	10	--	460
Middle East	1,555	300	1,615	7,275	445	1,745	3,560	220	695	100	17,510
North Africa	1,015	5	135	1,440	15	--	55	--	155	--	2,820
West Africa	985	5	420	990	60	--	15	--	--	--	2,475
East and South Africa	--	--	--	--	--	10	--	--	--	--	10
South Asia	--	--	--	--	--	--	5	--	35	--	40
South East Asia	405	--	--	15	25	--	1,075	140	45	--	1,705
Japan	--	--	--	--	--	5	--	--	--	--	5
Australasia	--	--	--	5	--	10	5	--	--	--	20
USSR/ E. Europe & China	--	--	205	1,300	--	225	180	--	95	--	2,005
TOTAL IMPORTS	6,735	635	2,940	11,825	685	2,020	4,985	365	1,270	475	31,935

1981

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	95	260	135	5	40	40	10	10	10	605
Canada	425	--	5	15	5	--	--	--	--	5	455
Latin America	1,950	295	220	880	105	--	155	25	380	370	4,380
Western Europe	525	5	--	--	105	10	5	--	110	--	760
Middle East	1,255	195	1,395	5,750	385	1,755	3,020	180	555	115	14,605
North Africa	655	30	70	1,350	--	--	70	--	--	--	2,175
West Africa	720	5	285	660	40	--	20	--	--	--	1,730
East and South Africa	--	--	--	--	10	5	5	--	--	--	20
South Asia	--	--	--	--	--	5	5	5	30	--	45
South East Asia	395	--	--	50	20	--	950	95	150	--	1,660
Japan	--	--	--	--	--	5	--	5	--	--	10
Australasia	5	--	--	--	--	10	--	--	--	--	15
USSR/ E. Europe & China	20	--	185	1,405	--	240	190	--	155	--	2,195
TOTAL IMPORTS	5,950	625	2,420	10,245	675	2,070	4,460	320	1,390	500	28,655

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1982

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	..	90	315	225	10	65	75	10	10	15	815
Canada	470	..	..	10	..	..	5	..	..	..	485
Latin America	2,050	180	415	750	100	10	150	..	150	330	4,135
Western Europe	580	25	30	..	155	10	..	5	160	..	965
Middle East	770	95	920	4,625	275	1,640	2,755	155	425	..	11,660
North Africa	245	15	125	1,500	20	..	45	..	190	5	2,145
West Africa	605	5	105	700	45	..	..	..	40	..	1,500
East and South Africa	..	..	..	..	20	5	..	..	..	..	25
South Asia	..	..	..	45	..	5	5	5	10	..	70
South East Asia	275	..	..	25	20	..	890	135	135	..	1,480
Japan	..	..	..	5	..	5	..	5	..	..	15
Australasia	5	..	..	..	..	..	20	..	..	..	25
USSR/ E. Europe & China	40	..	200	1,465	..	240	210	5	85	..	2,245
TOTAL IMPORTS	5,040	410	2,110	9,350	645	1,980	4,155	320	1,205	350	25,565

1983

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	..	80	255	185	15	80	105	15	5	..	740
Canada	540	..	..	..	..	..	5	..	..	..	545
Latin America	2,160	125	425	820	65	5	180	5	160	120	4,065
Western Europe	550	15	25	..	145	5	..	5	105	10	860
Middle East	575	60	855	3,415	405	1,615	2,750	120	545	15	10,355
North Africa	280	25	60	1,675	5	..	40	..	95	..	2,180
West Africa	475	15	115	755	25	..	5	..	35	..	1,425
East and South Africa	..	..	..	..	..	5	..	..	..	..	5
South Asia	..	..	..	5	10	25	15	10	..	..	65
South East Asia	345	..	..	25	20	..	780	85	55	90	1,400
Japan	..	..	..	..	..	10	..	..	..	..	10
Australasia	5	..	..	..	..	10	30	..	5	..	50
USSR/ E. Europe & China	60	..	220	1,785	..	240	235	5	110	..	2,655
TOTAL IMPORTS	4,990	320	1,955	8,665	690	1,995	4,145	245	1,115	235	24,355

See notes and sources at end of table

Section IX
Table 10f

World Oil Movements
(Thousands of Barrels per Day)

1984

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	255	205	10	60	90	10	5	--	720
Canada	625	--	--	--	--	--	5	--	--	25	655
Latin America	2,255	125	420	875	65	--	185	--	120	55	4,100
Western Europe	620	25	40	--	80	--	--	5	75	15	860
Middle East	615	70	700	3,045	340	1,555	2,830	110	525	55	9,845
North Africa	315	30	80	1,650	35	--	25	--	155	--	2,290
West Africa	445	5	105	965	55	--	--	--	40	55	1,670
East & South Africa	--	--	--	--	5	--	--	--	--	10	15
South Asia	--	--	--	20	5	10	15	--	--	5	55
South East Asia	375	--	--	35	10	--	880	105	65	130	1,600
Japan	--	--	--	--	--	10	--	--	--	5	15
Australasia	40	--	--	--	--	15	5	--	--	--	60
USSR/ E. Europe & China	90	0	200	1,800	--	385	270	--	120	--	2,865
TOTAL IMPORTS	5,380	340	1,800	8,595	605	2,035	4,305	230	1,105	355	24,750

1985

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	70	285	165	10	65	105	5	5	60	770
Canada	750	--	--	5	--	--	--	--	--	--	755
Latin America	2,005	120	320	805	55	70	145	--	45	--	3,565
Western Europe	470	70	15	--	65	5	5	--	95	85	805
Middle East	425	50	635	3,020	350	1,390	2,715	65	690	--	9,340
North Africa	205	35	100	1,725	20	--	55	--	275	--	2,415
West Africa	505	10	170	965	80	10	--	--	25	--	1,765
East and South Africa	--	--	--	--	15	--	--	--	--	--	15
South Asia	--	--	--	20	--	5	10	--	--	10	45
South East Asia	410	--	--	50	30	--	815	100	80	75	1,555
Japan	--	--	--	--	--	15	--	--	--	--	15
Australasia	40	--	--	--	--	40	65	--	--	--	145
USSR/ E.Europe & China	100	--	295	1,610	5	465	280	--	1,610	50	4,415
TOTAL IMPORTS	4,910	355	1,820	8,365	630	2,065	4,195	170	2,825	280	25,605

See notes and sources at end of table

Section IX
Table 10g

World Oil Movements
(Thousands of Barrels per Day)

1986

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	240	205	5	75	35	10	30	80	765
Canada	670	--	--	5	--	--	--	--	--	--	675
Latin America	2,205	75	160	630	55	80	210	--	70	115	3,600
Western Europe	615	130	25	--	110	--	15	--	90	105	1,090
Middle East	915	95	570	3,520	335	1,430	2,715	100	930	270	10,880
North Africa	275	--	--	1,830	15	--	30	--	365	--	2,515
West Africa	640	45	150	1,060	80	--	--	--	5	--	1,980
East and South Africa	--	--	--	5	--	--	--	--	--	--	5
South Asia	20	--	--	15	--	--	15	10	--	--	60
South East Asia	525	--	--	5	5	--	795	70	110	40	1,550
Japan	--	--	--	--	--	10	--	--	10	--	20
Australasia	30	--	--	--	--	30	45	--	--	--	105
USSR/ E.Europe & China	150	--	475	1,585	--	350	280	--	1,570	35	4,445
TOTAL IMPORTS	6,045	430	1,620	8,860	605	1,975	4,140	190	3,180	645	27,690

1987

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	85	295	180	5	70	30	15	10	55	745
Canada	610	--	--	5	--	--	15	--	--	--	630
Latin America	2,170	50	--	245	--	20	190	5	--	355	3,035
Western Europe	585	150	25	--	120	5	--	5	50	115	1,055
Middle East	1,120	35	255	3,375	330	1,555	2,710	110	825	--	10,315
North Africa	340	--	10	1,605	--	35	40	--	405	--	2,435
West Africa	855	25	60	835	60	5	5	--	35	--	1,880
East and South Africa	--	--	--	5	--	--	--	--	--	--	5
South Asia	25	--	--	5	--	5	15	5	--	--	55
South East Asia	330	--	10	5	--	--	825	80	50	55	1,355
Japan	5	--	--	--	--	20	--	--	5	--	30
Australasia	55	--	--	--	--	50	35	--	--	--	140
USSR/ E. Europe and China	150	--	345	1,645	30	255	260	--	1,690	105	4,480
TOTAL IMPORTS	6,245	345	1,000	7,905	545	2,020	4,125	220	3,070	685	26,160

See notes and sources at end of table

Section IX
Table 10h

World Oil Movements
(Thousands of Barrels per Day)

1988

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	86	258	162	4	94	50	19	12	9	694
Canada	682	--	--	9	--	--	4	3	6	--	704
Latin America	2,084	103	--	628	--	34	189	--	--	55	3,093
Western Europe	649	203	11	--	84	14	9	3	84	2	1,059
Middle East	1,601	57	367	3,554	382	2,059	2,797	147	878	--	11,842
North Africa	333	--	--	1,898	--	133	58	--	176	--	2,598
West Africa	894	44	128	826	86	26	6	--	--	12	2,022
East and South Africa	1	--	--	--	--	--	--	1	--	--	2
South Asia	30	--	--	--	--	3	37	3	--	--	73
South East Asia	242	--	8	23	--	12	909	80	33	--	1,307
Japan	1	--	--	--	--	15	--	--	--	1	17
Australasia	53	1	--	--	--	74	35	--	1	--	164
USSR/ E.Europe & China	180	--	274	2,004	16	434	318	2	1,849	574	5,651
TOTAL IMPORTS	6,750	494	1,046	9,104	572	2,898	4,412	258	3,039	653	29,226

1989

FROM / TO	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	92	333	163	4	58	122	24	12	9	817
Canada	921	--	--	4	--	6	6	--	--	7	944
Latin America	2,586	90	--	587	--	13	166	2	1	66	3,511
Western Europe	585	196	6	--	124	30	7	10	72	300	1,330
Middle East	1,896	70	412	3,938	312	2,581	3,030	195	955	--	13,389
North Africa	296	1	--	1,930	--	14	16	1	157	--	2,415
West Africa	1,202	64	--	797	182	62	12	--	--	--	2,319
East and South Africa	26	--	--	8	--	--	--	--	--	--	34
South Asia	36	--	--	2	--	26	5	5	1	--	75
South East Asia	271	--	50	7	29	12	858	87	135	234	1,683
Japan	3	--	--	--	--	49	--	--	6	1	59
Australasia	35	--	1	--	--	93	27	--	11	51	218
USSR/ E.Europe & China	162	5	402	1,948	15	457	300	4	1,186	185	4,664
TOTAL IMPORTS	8,019	518	1,204	9,384	666	3,401	4,549	328	2,536	853	31,458

See notes and sources at end of table

World Oil Movements
(Thousands of Barrels per Day)

1990

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	97	309	214	3	125	96	21	16	8	889
Canada	932	--	1	3	--	8	5	--	--	6	955
Latin America	2,618	81	--	561	--	27	158	1	--	308	3,754
Western Europe	548	353	8	--	60	9	9	6	133	509	1,635
Middle East	2,026	78	164	4,001	354	3,126	3,245	250	406	562	14,212
North Africa	322	7	--	2,051	--	3	14	1	206	--	2,604
West Africa	1,148	51	--	854	164	14	17	--	--	--	2,248
East and South Africa	23	--	--	--	--	--	--	--	--	--	23
South Asia	30	--	--	5	--	44	2	1	2	--	84
Other Asia	183	--	19	7	--	5	917	93	--	274	1,498
Japan	1	--	--	--	--	73	--	1	--	--	75
Australasia	53	--	--	4	--	19	26	--	--	103	205
USSR/ C. Europe & China	142	4	257	2,047	32	319	313	7	1,272	100	4,493
TOTAL IMPORTS	8,026	671	758	9,747	613	3,772	4,802	381	2,035	1,870	32,675

1991

TO FROM	USA	Canada	Latin America	Western Europe	Africa	South East Asia	Japan	Austral-Asia	Rest of World	Destination not Known(a)	Total Exports
United States	--	70	94	255	--	--	129	18	18	416	1,000
Canada	1,015	--	3	23	1	16	5	--	--	48	1,111
Latin America	2,304	96	--	683	--	--	159	1	1	177	3,421
Western Europe	408	351	6	--	61	3	2	7	133	657	1,628
Middle East	1,958	94	317	3,878	368	3,357	3,298	188	353	18	13,829
North Africa	277	7	--	2,083	85	--	21	--	121	187	2,781
West Africa	823	62	--	1,058	102	--	12	--	--	443	2,500
East and South Africa	--	--	--	--	15	--	--	1	2	--	18
South Asia	--	--	--	3	--	--	11	--	56	--	70
Other Asia	140	1	--	3	--	87	957	86	76	279	1,629
Japan	--	--	--	1	--	52	--	9	4	--	66
Australasia	29	2	--	--	--	103	52	--	1	33	220
USSR/ C. Europe & China	142	11	9	1,552	--	312	279	2	626	52	2,985
Unidentified	695	18	--	579	6	325	--	--	50	--	1,673
TOTAL IMPORTS	7,791	712	429	10,118	638	4,255	4,925	312	1,441	2,310	32,931

(a) Includes changes in the quantity of oil in transit, transit losses, minor increments not otherwise shown, unidentified military use, etc

SOURCE: BP Statistical Review of World Energy

Historical United States Imports of Crude Oil and Refined Products: 1918-1946

Year	Crude Oil		Refined Products	
	Thous. of Bbls	Thous. of B/D	Thous. of Bbls	Thous. of B/D
1918	5,884	16	62,128	170
1919	6,348	17	57,500	158
1920	9,295	25	70,281	192
1921	9,627	26	62,215	170
1922	10,805	30	63,759	175
1923	17,534	48	84,713	232
1924	18,239	50	99,291	271
1925	13,337	37	100,841	276
1926	15,407	42	116,881	320
1927	15,844	43	126,159	346
1928	18,966	52	136,374	373
1929	26,401	72	137,133	376
1930	23,705	65	133,164	365
1931	25,535	70	99,146	272
1932	27,393	75	76,134	208
1933	36,584	100	70,430	193
1934	41,127	113	73,707	202
1935	51,430	141	77,925	213
1936	50,313	137	82,056	224
1937	67,234	184	106,077	291
1938	77,254	212	116,891	320
1939	72,076	197	117,473	322
1940	51,496	141	78,970	216
1941	33,238	91	75,592	207
1942	33,834	93	83,073	228
1943	41,342	113	108,615	298
1944	34,238	94	173,378	474
1945	32,998	90	149,985	411
1946	42,436	116	110,687	303

SOURCE: U.S. Bureau of Mines, Minerals Industry Surveys and "Annual Petroleum Statements".

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Crude Oil and Its Products
Table 2. U.S. Exports of Petroleum to Selected Areas
Table 3. African Oil Exports to Selected Areas
Table 4. Middle East Oil Exports to Selected Areas
Table 5. The Role of Middle East and African Oil in Western European and Japanese Consumption
Table 6. The Role of Middle East and African Oil in World Exports

Total U.S. Domestic Production and Exports of Crude Oil and its Products
(Thousands of barrels)

Year	Production(a)	Exports	Exports as a % of U.S. Production
1947	1,989,850	164,477	8.3
1948	2,167,264	134,674	6.2
1949	1,999,215	119,376	6.0
1950	2,155,693	111,306	5.2
1951	2,452,465	154,052	6.3
1952	2,513,351	158,188	6.3
1953	2,596,661	146,591	5.6
1954	2,567,121	129,733	5.1
1955	2,765,799	134,188	4.9
1956	2,910,010	157,386	5.4
1957	2,911,891	207,187	7.1
1958	2,743,736	100,638	3.7
1959	2,895,347	77,067	2.7
1960	2,915,090	73,906	2.5
1961	2,983,447	63,563	2.1
1962	3,048,894	61,390	2.0
1963	3,153,609	75,914	2.4
1964	3,209,293	73,879	2.3
1965	3,290,070	68,288	2.1
1966	3,496,398	72,400	2.1
1967	3,730,198	112,060	3.0
1968	3,879,353	84,544	2.2
1969	3,951,992	84,885	2.1
1970	4,123,366	94,458	2.3
1971	4,071,729	81,685	2.0
1972	4,093,584	81,389	2.0
1973	3,995,326	84,413	2.1
1974	3,818,683	80,491	2.1
1975	3,652,737	76,428	2.1
1976	3,563,225	81,599	2.3
1977	3,599,720	88,588	2.5
1978	3,750,302	132,057	3.5
1979	3,699,333	171,856	4.6
1980	3,722,152	199,256	5.4
1981	3,715,743	217,024	5.8
1982	3,722,591	297,514	8.0
1983	3,730,085	269,890	7.2
1984	3,846,173	264,077	6.9
1985	3,861,911	285,069	7.4
1986	3,734,252	286,373	7.7
1987	3,629,669	278,731	7.7
1988	3,573,815	298,466	8.4
1989	3,342,898	313,460	9.4
1990	3,253,686	312,671	9.6
1991	3,319,622	365,341	11.0

(a) Figures include crude oil, lease condensate, and natural gas liquids.

SOURCE: U.S. Energy Information Administration, Annual Petroleum Statements and Petroleum Supply Annuals.

Section X
Table 2

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

	Canada		Mexico		Caribbean(a)		Other Latin American		United Kingdom	
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products
1947	39,058	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565
1948	33,298	20,629	62	4,157	1,498	8,788	1,417	3,439	471	16,223
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410
1950(b)	30,708	15,953	--	6,229	1,829	7,278	661	4,141	441	5,868
1951(b)	21,172	17,867	--	7,034	2,167	9,729	1,356	3,932	457	13,914
1952(b)	20,172	25,211	--	7,130	2,513	13,703	1,789	4,295	499	9,889
1953(b)	14,025	26,939	--	8,281	2,620	10,399	1,081	3,515	418	9,201
1954(b)	8,130	22,635	--	12,003	2,928	7,185	608	5,003	462	7,687
1955(b)	6,501	20,329	--	16,062	3,136	7,713	236	6,426	532	8,875
1956(b)	5,570	20,560	--	16,485	3,262	9,979	--	5,007	5,238	10,831
1957(b)	8,240	18,307	902	15,950	3,283	11,120	--	7,110	14,880	19,660
1958(b)	1,153	13,497	696	11,568	592	7,977	--	3,661	378	6,010
1959	--	16,061	21	8,297	--	3,978	--	4,753	405	6,592
1960	--	12,622	--	6,428	--	3,315	--	4,131	433	3,840
1961	20	8,381	133	4,415	--	3,721	1	3,143	437	3,268
1962	8	7,706	--	4,981	--	2,888	--	3,417	428	2,616
1963	2	7,985	3	6,889	--	3,481	--	3,036	424	3,443
1964	7	9,791	3	8,920	--	4,503	--	3,656	336	3,191
1965	12	9,619	333	9,452	--	3,322	1	2,635	352	3,924
1966	2	11,715	203	13,955	--	2,179	--	3,240	431	3,784
1967	3,688	14,521	18	12,999	645	3,479	--	4,444	16,959	5,562
1968	5	14,126	114	11,140	283	1,603	--	5,138	352	4,838
1969	30	16,017	1	12,098	220	2,511	--	5,829	430	4,421
1970	328	10,855	--	12,142	4,264	3,272	--	4,565	176	4,185
1971	60	9,384	--	15 180	181	4,474	--	5,484	120	3,053
1972	--	9,599	--	15,061	--	3,888	--	4,374	--	3,705
1973	--	11,427	--	15,984	--	3,614	--	4,294	--	3,249
1974	108	11,504	--	12,885	966	3,023	--	4,005	--	2,317
1975	19	8,139	--	15,425	2,127	3,114	--	3,386	--	2,636
1976	2,241	8,096	--	12,677	700	8,772	--	3,474	--	2,732
1977	16,460	9,548	--	8,893	1,795	3,566	--	3,338	--	3,136
1978	28,761	10,640	--	9,877	28,967	3,373	--	4,459	--	2,447
1979	26,079	10,299	--	7,835	59,628	3,538	--	4,718	--	2,493
1980(c)	30,567	8,822	--	10,085	74,367	9,942	--	4,006	--	2,386
1981(c)	16,440	16,102	--	9,416	65,104	18,692	--	2,781	--	1,971
1982(c)	13,083	18,019	--	19,464	67,633	23,531	--	6,714	--	5,167
1983(c)	6,781	21,047	--	8,812	46,431	21,026	--	6,966	--	3,047
1984(c)	5,784	24,672	--	12,681	49,498	20,570	--	11,046	--	5,291
1985(c)	7,523	19,463	--	22,187	55,019	20,772	--	10,174	--	5,210
1986(c)	6,040	25,027	--	20,525	39,954	20,225	--	11,408	--	3,095
1987(c)	5,988	24,247	--	25,544	47,864	27,966	--	6,943	7	2,359
1988(c)	3,737	26,897	--	25,764	52,024	19,959	--	16,949	--	3,370
1989(c)	2,739	30,935	--	32,544	48,044	21,566	--	21,019	--	3,443
1990(c)	3,974	29,363	--	32,623	35,287	24,025	--	17,909	--	3,863
1991(c)	1,937	23,569	--	36,261	40,400	25,644	--	28,800	--	4,661

See notes and sources at end of table

Section X
Table 2a

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

	Other European		Middle East		Japan		Other Australasian		Africa		
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Total U.S. Exports
1947	4,424	20,674	N.A.	N.A.	--	--	--	14,565	--	2,786	164,477
1948	2,991	13,150	N.A.	N.A.	--	--	--	8,570	--	2,400	134,674
1949	547	12,423	N.A.	N.A.	--	364	--	7,176	--	2,922	119,376
1950(b)	851	8,227	N.A.	N.A.	334	92	--	2,953	--	1,916	111,306
1951(b)	1,048	12,284	N.A.	N.A.	2,403	4,878	--	11,406	--	4,783	154,052
1952(b)	976	9,466	N.A.	N.A.	748	7,286	--	13,126	--	5,896	158,188
1953(b)	926	7,809	N.A.	N.A.	862	10,508	--	8,740	--	5,043	146,591
1954(b)	745	5,424	N.A.	N.A.	726	8,166	--	5,996	--	2,734	129,733
1955(b)	650	7,385	N.A.	N.A.	515	11,282	--	4,363	--	1,636	134,188
1956(b)	13,377	14,560	N.A.	N.A.	1,055	9,790	--	4,309	122	2,154	157,386
1957(b)	21,003	29,660	N.A.	N.A.	1,057	13,642	339	6,431	539	3,328	207,187
1958(b)	450	9,420	N.A.	N.A.	1,076	12,486	--	4,491	--	2,368	100,638
1959	550	9,515	N.A.	N.A.	1,548	16,153	--	5,819	--	2,383	77,067
1960	568	10,395	N.A.	N.A.	2,086	20,595	--	5,891	--	2,332	73,906
1961	355	9,401	N.A.	N.A.	2,218	19,255	55	5,930	--	1,686	63,563
1962	--	10,290	N.A.	N.A.	1,354	18,333	--	6,544	--	2,655	61,390
1963	1	19,933	N.A.	N.A.	1,266	20,080	1	7,316	--	3,066	76,926
1964	--	14,387	N.A.	N.A.	952	19,429	63	6,602	--	2,206	74,046
1965	--	13,365	N.A.	N.A.	306	14,466	--	7,648	--	1,596	68,288
1966	1	13,522	N.A.	N.A.	808	12,283	31	7,077	1	2,019	72,400
1967	4,604	15,318	N.A.	N.A.	626	17,938	--	7,299	1	2,179	112,060
1968	--	14,912	N.A.	N.A.	1,048	19,566	--	7,779	--	2,026	84,545
1969	--	17,005	N.A.	N.A.	755	16,314	--	7,364	--	1,849	84,885
1970	--	20,250	N.A.	N.A.	223	24,868	--	6,433	--	1,475	94,458
1971	--	19,406	--	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	--	24,033	--	1,158	187	11,475	--	6,165	--	1,744	81,389
1973	177	24,863	--	957	520	11,782	--	5,888	--	1,658	84,413
1974	--	24,238	--	1,146	--	13,809	--	4,728	--	1,762	80,491
1975	--	24,846	--	995	--	10,012	--	3,550	--	2,179	76,428
1976	--	27,220	--	1,280	--	9,326	--	3,725	--	1,356	81,599
1977	--	25,933	--	1,034	--	8,951	--	4,213	--	1,721	88,588
1978	--	26,457	--	1,380	--	9,642	--	4,802	--	1,252	132,057
1979	--	37,497	--	1,085	--	12,543	--	4,416	--	1,725	171,856
1980(c)	--	34,885	--	1,291	--	11,596	--	9,028	--	2,280	199,256
1981(c)	--	47,710	--	1,912	--	14,014	7	16,715	--	2,595	217,024
1982(c)	--	77,969	--	2,182	--	24,836	--	28,077	--	2,791	297,514
1983(c)	--	66,025	--	1,808	--	38,132	--	35,904	--	3,097	269,854
1984(c)	--	56,913	--	1,750	--	33,657	--	24,263	--	2,724	264,077
1985(c)	--	55,580	--	1,315	--	39,468	--	18,215	--	2,668	285,069
1986(c)	--	70,183	--	2,375	--	39,975	--	30,592	--	2,345	286,373
1987(c)	--	56,432	--	3,107	--	43,799	1,105	29,693	--	1,337	278,732
1988(c)	--	58,048	--	2,270	--	45,435	951	40,398	--	1,541	298,466
1989(c)	--	57,221	--	2,860	--	44,528	900	43,181	--	1,173	313,460
1990(c)	--	71,907	--	4,128	--	33,741	392	51,594	--	1,046	312,671
1991(c)	--	87,418	--	5,224	--	34,631	48	68,983	--	1,802	365,341

See notes and sources at end of table

United States Exports of Petroleum to Selected Areas
(Thousands of Barrels)

N.A. Not Available
(a) As of 1971 includes exports to Puerto Rico and Virgin Islands.
(b) Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419
(c) Total includes exports to Greenland and other.

SOURCE: 1947-1974: U.S. Bureau of Mines, Minerals Yearbook
1975-1980: U.S. Energy Information Administration, Annual Petroleum Statements.
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals

Section X
Table 3

African Oil Exports to Selected Areas
(Thousands of barrels per day)

Year(a)	United States	Western Europe	Japan	All Others	African Exports
1960	--	237	--	--	237
1961	5	430	--	--	435
1962	25	740	--	--	765
1963	25	1,125	--	30	1,180
1964	55	1,565	--	30	1,650
1965	70	2,040	--	30	2,140
1966	90	2,540	5	130	2,765
1967	55	2,700	--	155	2,910
1968	170	3,535	5	165	3,875
1969	330	4,370	15	230	4,945
1970	125	5,330	50	300	5,805
1971	195	4,430	60	805	5,490
1972	495	3,900	75	920	5,390
1973	875	3,575	130	1,005	5,585
1974	1,025	3,215	170	760	5,170
1975	1,350	2,365	140	560	4,415
1976	2,000	2,540	70	720	5,330
1977	2,540	2,580	25	540	5,685
1978	2,285	2,555	10	645	5,495
1979	2,540	2,880	15	645	6,080
1980	2,000	2,430	70	805	5,305
1981	1,375	2,010	95	445	3,925
1982	850	2,200	45	575	3,670
1983	755	2,430	45	380	3,610
1984	760	2,615	25	575	3,975
1985	705	2,690	55	745	4,195
1986	915	2,895	30	660	4,500
1987	1,195	2,445	45	635	4,320
1988	1,228	2,724	64	606	4,622
1989	1,524	2,735	28	481	4,768
1990	1,493	2,905	31	446	4,875
1991	1,100	3,141	33	1,025	5,299

(a) Not available prior to 1960

SOURCE: "BP Statistical Review of World Energy," Annual

Section X
Table 4

Middle East Oil Exports to Selected Areas
(Thousands of barrels per day)

Year(a)	United States	Western Europe	Japan	All Others	Middle East Exports
1959	355	2,528	..	1,060	4,120
1960	347	2,724	..	1,619	4,690
1961	345	2,855	610	1,280	5,090
1962	315	3,060	720	1,490	5,585
1963	295	3,400	920	1,540	6,155
1964	310	3,740	1,115	1,760	6,925
1965	350	4,195	1,435	1,630	7,610
1966	320	4,375	1,650	2,280	8,625
1967	200	4,605	2,035	2,305	9,145
1968	270	5,065	2,650	2,460	10,445
1969	265	5,780	3,055	2,425	11,525
1970	175	6,220	3,485	2,835	12,715
1971	390	7,685	3,810	3,365	15,250
1972	475	8,570	3,770	4,135	16,950
1973	820	10,350	4,385	4,415	19,970
1974	1,025	10,195	4,050	4,780	20,050
1975	1,140	8,815	3,675	4,875	18,505
1976	1,910	9,405	3,955	5,585	20,855
1977	2,560	8,855	4,095	5,220	20,730
1978	2,300	8,685	4,010	4,735	19,730
1979	2,115	8,685	4,155	5,480	20,435
1980	1,555	7,275	3,560	5,120	17,510
1981	1,255	5,750	3,020	4,580	14,605
1982	770	4,625	2,755	3,510	11,660
1983	575	3,415	2,750	3,615	10,355
1984	615	3,045	2,830	3,355	9,845
1985	425	3,020	2,715	3,180	9,340
1986	915	3,520	2,715	3,730	10,880
1987	1,120	3,375	2,710	3,110	10,315
1988	1,601	3,554	2,797	3,890	11,842
1989	1,896	3,938	3,030	4,525	13,389
1990	2,026	4,001	3,245	4,940	14,212
1991	1,958	3,878	3,298	4,695	13,829

(a) Not available prior to 1959.

SOURCE: BP Statistical Review of World Energy, Annual

Section X
Table 5

The Role of Middle East and African Oil in Western European and Japanese Consumption (Thousands of Barrels Per Day)

	Western Europe			Japan		
Year	Consumption	From the Middle East	From Africa	Consumption	From the Middle East	From Africa
1961	4,453	2,855	430	821	610	--
1962	5,128	3,060	740	934	720	--
1963	5,893	3,400	1,125	1,212	920	--
1964	6,692	3,740	1,565	1,484	1,115	--
1965	7,525	4,195	2,040	1,743	1,435	--
1966	8,360	4,375	2,540	1,979	1,650	5
1967	8,937	4,605	2,700	2,144	2,035	--
1968	9,958	5,065	3,535	2,660	2,650	5
1969	11,378	5,780	4,370	3,250	3,055	15
1970	12,364	6,220	5,330	3,847	3,485	50
1971	12,912	7,685	4,430	4,179	3,810	60
1972	13,847	8,570	3,900	4,364	3,770	75
1973	14,492	10,350	3,575	5,071	4,385	130
1974	13,681	10,195	3,215	4,960	4,050	170
1975	12,603	8,815	2,365	4,502	3,675	140
1976	13,448	9,405	2,540	4,771	3,955	70
1977	14,235	8,855	2,580	5,345	4,095	25
1978	14,630	8,685	2,555	5,420	4,010	10
1979	15,037	8,685	2,880	5,485	4,155	15
1980	13,826	7,275	2,430	4,935	3,560	70
1981	12,775	5,750	2,010	4,695	3,020	95
1982	12,210	4,625	2,200	4,395	2,755	45
1983	11,940	3,415	2,430	4,390	2,750	45
1984	12,050	3,045	2,615	4,620	2,830	25
1985	11,865	3,020	2,690	4,435	2,715	55
1986	12,340	3,520	2,895	4,495	2,715	30
1987	12,365	3,375	2,445	4,500	2,710	45
1988	12,525	3,554	2,724	4,805	2,797	64
1989	12,510	3,938	2,735	5,005	3,030	28
1990	13,045	4,001	2,905	5,255	3,245	31
1991	13,340	3,878	3,141	5,295	3,298	33

SOURCE 1961-1980 Western Europe and Japanese Consumption U.S. Energy Information Administration, International Petroleum Annual
1981-1991 Western Europe and Japanese Consumption BP Statistical Review of World Energy
1961-1991 Middle East and African Exports BP Statistical Review of World Energy

Section X
Table 6

The Role of Middle East and African Oil in World Exports
(Thousands of Barrels/Day)

		Middle East		Africa		Total World	
Year		Production	Exports	Production	Exports	Production	Exports
1961		5,633	5,090	489	435	22,428	9,870
1962		6,186	5,585	804	765	24,334	11,285
1963		6,812	6,155	1,190	1,180	26,132	12,205
1964		7,613	6,925	1,704	1,650	28,168	13,625
1965		8,367	7,610	2,224	2,140	30,308	15,110
1966		9,338	8,625	2,821	2,765	32,936	16,890
1967		10,048	9,145	3,117	2,910	35,382	17,905
1968		11,298	10,445	3,992	3,875	38,651	20,400
1969		12,447	11,525	5,069	4,945	41,706	22,640
1970		13,957	12,715	6,069	5,805	45,805	25,420
1971		16,381	15,250	5,645	5,490	48,391	27,285
1972		18,116	16,950	5,699	5,390	50,822	30,095
1973		21,219	19,970	5,922	5,585	55,803	34,130
1974		21,882	20,050	5,452	5,170	56,268	33,330
1975		19,619	18,505	5,003	4,415	53,418	30,335
1976		22,174	20,855	5,832	5,330	58,059	34,300
1977		22,600	20,730	6,236	5,685	62,620	34,755
1978		21,415	19,730	6,115	5,495	63,085	33,860
1979		21,558	20,435	6,640	6,080	62,658	35,350
1980		18,407	17,510	6,031	5,305	59,454	31,935
1981		15,752	14,605	4,581	3,925	55,837	28,655
1982		12,664	11,660	4,465	3,670	53,092	25,565
1983		11,550	10,335	4,410	3,610	52,625	24,355
1984		11,279	9,845	4,683	3,975	53,674	24,750
1985		10,305	9,340	4,855	4,195	52,931	25,605
1986		12,710	10,880	4,986	4,500	55,684	27,690
1987	(a)	13,125	10,315	5,290	4,320	60,150	26,160
1988		15,000	11,842	5,480	4,622	62,350	29,226
1989		16,590	13,389	5,945	4,768	63,560	32,088
1990		17,215	14,212	6,535	4,875	64,875	31,441
1991		16,785	13,829	6,875	5,299	64,230	32,338

(a) Beginning in 1987, production figures include crude oil, shale oil, oil sands and natural gas liquids.

SOURCE: 1961-1978: Total World, Middle East and African Production, U.S. Energy Information Administration, International Petroleum Annual
1979-1986: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1986: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry
1987-1991: BP Statistical Review of World Energy

BASIC PETROLEUM DATA BOOK

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Estimated Worldwide Production of Crude Oil
Onshore vs Offshore

Year	Onshore Production	Offshore Production	Total World Production	Onshore Production	Offshore Production	Total World Production
Thousands of Barrels				Thousands of Barrels per day		
1969	12,961,336	2,261,175	15,222,511	35,511	6,195	41,706
1970	13,961,668	2,757,040	16,718,708	38,251	7,554	45,805
1971	14,649,885	3,012,908	17,662,793	40,126	8,255	48,381
1972	15,346,357	3,254,388	18,600,745	41,930	8,892	50,822
1973	16,729,330	3,638,651	20,367,981	45,835	9,968	55,803
1974	17,140,035	3,397,692	20,537,727	46,957	9,310	56,267
1975	16,316,198	3,186,137	19,502,335	44,689	8,729	53,418
1976	17,661,041	3,530,499	21,191,540	48,253	9,647	57,900
1977	17,738,887	4,161,808	21,900,695	48,600	11,402	60,002
1978	17,961,621	4,196,630	22,158,251	49,210	11,498	60,708
1979	18,139,390	4,625,660	22,765,050	49,852	12,518	62,370
1980	16,754,248	5,009,916	21,764,164	45,766	13,688	59,454
1981	15,395,719	4,984,786	20,380,505	42,180	13,657	55,837
1982	14,432,660	4,942,465	19,375,125	39,542	13,541	53,083
1983	14,199,839	5,011,085	19,210,924	38,904	13,729	52,633
1984	14,124,654	5,628,714	19,753,368	38,592	15,379	53,971
1985	13,967,228	5,521,720	19,488,948	38,266	15,128	53,394
1986	15,248,292	5,080,800	20,329,092	41,776	13,920	55,696
1987	14,846,368	5,322,795	20,169,163	40,675	14,583	55,258
1988	15,736,053	5,309,196	21,045,249	42,995	14,506	57,501
1989	16,006,008	5,377,910	21,383,918	43,852	14,734	58,586
1990	15,791,725	5,872,485	21,664,210	43,265	16,089	59,354
1991	14,303,089	7,160,935	21,464,024	39,188	19,619	58,807

SOURCE: Total World Production: 1969-1979: U.S. Energy Information Administration.
1980-1991: Central Intelligence Agency
United States Offshore Production, U.S. Department of Interior and U.S. Department of Energy
Rest of World Offshore Production, Offshore Magazine

Section XI
Table 2

Estimated Worldwide Offshore Production of Crude Oil by Area

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
(Millions of Barrels)												
1970	583.5	897.9	43.4	1,524.8	760.7	239.8	133.2	4.4	2,662.9	94.2	NA	2,757.1
1971	625.7	908.9	69.4	1,604.0	913.4	233.9	158.4	12.0	2,921.7	91.3	NA	3,013.0
1972	621.3	915.0	82.4	1,618.7	1,040.5	276.3	216.7	15.8	3,168.0	86.4	NA	3,254.4
1973	583.4	985.5	65.8	1,634.7	1,282.2	323.2	287.5	24.7	3,552.3	86.1	NA	3,638.4
1974	535.7	756.0	73.7	1,365.4	1,262.7	380.3	275.1	29.9	3,313.4	84.3	NA	3,397.7
1975	496.5	634.0	97.4	1,227.9	1,070.3	364.9	323.2	116.5	3,102.8	83.2	NA	3,186.0
1976	467.8	613.9	107.1	1,188.8	1,198.2	384.6	407.6	270.9	3,450.1	80.5	NA	3,530.6
1977	439.2	456.3	107.7	1,003.2	1,648.0	490.2	549.7	396.0	4,087.1	74.8	NA	4,161.9
1978	416.3	395.7	103.7	915.7	1,734.8	414.3	525.6	532.5	4,122.9	73.7	NA	4,196.6
1979	398.6	383.3	255.1	1,037.0	1,934.1	355.5	490.6	736.6	4,553.8	71.9	NA	4,625.7
1980	379.7	401.1	281.8	1,062.6	2,132.4	349.2	541.7	850.2	4,936.1	73.9	NA	5,010.0
1981	385.4	381.1	503.0	1,269.5	1,936.3	308.8	539.5	858.5	4,912.6	72.3	NA	4,984.9
1982	405.3	374.5	733.3	1,512.9	1,497.2	297.5	589.1	981.1	4,877.8	65.3	NA	4,943.1
1983	436.5	411.7	747.9	1,596.1	1,322.0	310.3	603.7	1,114.3	4,946.4	64.6	NA	5,011.0
1984	469.6	402.6	851.3	1,723.5	1,473.9	382.1	725.8	1,261.2	5,566.5	62.2	NA	5,628.7
1985	456.3	347.1	857.4	1,660.8	1,432.6	371.2	724.2	1,271.7	5,460.5	61.0	NA	5,521.5
1986	457.7	328.5	857.4	1,643.6	1,183.0	322.3	677.4	1,192.8	5,019.1	62.1	NA	5,081.2
1987	436.5	387.6	852.3	1,676.4	1,245.0	407.0	662.1	1,254.9	5,245.4	77.4	NA	5,322.8
1988	435.9	362.0	833.4	1,631.3	1,148.5	524.1	756.9	1,204.1	5,264.9	44.3	NA	5,309.2
1989	411.4	340.2	862.9	1,614.4	1,155.2	566.8	934.8	1,366.9	5,638.2	42.3	NA	5,680.5
1990	394.9	328.5	851.5	1,574.9	1,110.3	712.8	1,081.9	1,376.4	5,856.4	NA	16.1	5,872.5
1991	427.8	302.2	956.3	1,686.3	1,463.3	989.5	1,311.4	1,434.8	6,885.4	NA	275.6	7,161.0
(Thousands of barrels per day)												
1970	1,599	2,460	119	4,178	2,084	657	365	12	7,296	258	NA	7,554
1971	1,714	2,490	190	4,394	2,503	641	434	33	8,005	250	NA	8,255
1972	1,698	2,500	225	4,423	2,843	755	592	43	8,656	236	NA	8,892
1973	1,598	2,700	180	4,478	3,513	885	788	68	9,732	236	NA	9,968
1974	1,468	2,071	202	3,741	3,460	1,042	754	82	9,079	231	NA	9,310
1975	1,360	1,737	267	3,364	2,932	1,000	886	319	8,501	228	NA	8,729
1976	1,278	1,677	293	3,248	3,542	783	1,114	740	9,427	220	NA	9,647
1977	1,203	1,250	295	2,748	4,960	898	1,506	1,085	11,197	205	NA	11,402
1978	1,141	1,084	284	2,509	5,195	693	1,440	1,459	11,296	202	NA	11,498
1979	1,092	1,050	699	2,841	5,149	974	1,344	2,018	12,326	192	NA	12,518
1980	1,037	1,096	770	2,903	5,826	954	1,480	2,323	13,486	202	NA	13,688
1981	1,056	1,044	1,378	3,478	5,305	846	1,478	2,352	13,459	198	NA	13,657
1982	1,110	1,026	2,009	4,145	4,102	815	1,614	2,688	13,362	179	NA	13,541
1983	1,196	1,128	2,049	4,373	3,622	850	1,654	3,053	13,552	177	NA	13,729
1984	1,283	1,100	2,326	4,709	4,027	1,044	1,983	3,446	15,209	170	NA	15,379
1985	1,250	951	2,349	4,550	3,925	1,017	1,984	3,484	14,961	167	NA	15,128
1986	1,254	900	2,349	4,503	3,241	883	1,856	3,268	13,750	170	NA	13,920
1987	1,196	1,062	2,335	4,593	3,411	1,115	1,814	3,438	14,371	212	NA	14,583
1988	1,191	989	2,277	4,457	3,138	1,432	2,068	3,290	14,385	121	NA	14,506

See notes and sources at end of table

Estimated Worldwide Offshore Production of Crude Oil by Area

Year	United States	Venezuela	Other Latin America	Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Subtotal	Communist Nations	USSR/ E. Europe(b)	Total World
1989	1,127	932	2,364	4,423	3,165	1,553	2,561	3,745	14,618	116	NA	14,734
1990	1,082	900	2,333	4,315	3,042	1,953	2,964	3,771	16,045	NA	44	16,089
1991	1,172	828	2,620	4,620	4,009	2,711	3,593	3,931	18,864	NA	755	19,619

(a) Data not available for prior years.
(b) Due to the political changes in the USSR and East Europe, the category Communist Nations is being discontinued.
Beginning in 1990, all countries will be grouped by geographic region rather than political ideology.

SOURCE: United States: 1970-1971: U.S. Geological Survey
1972-1991: U.S. Energy Information Administration, Petroleum Supply Annual
Rest of World: Offshore Magazine

Section XI
Table 3

Production and Value of United States Crude Oil and Condensate Onshore vs Offshore

Year	Production (Thousands of Barrels) Onshore	Offshore	Total	Dollar Value at Wellhead (Thousands of Dollars) Onshore(a)	Offshore(b)	Total
Cumulative to 1953	47,367,775	445,942	47,813,717	$81,119,901	$763,977	$81,883,878
1954	2,266,163	48,825	2,314,988	6,289,428	135,502	6,424,930
1955	2,423,885	60,543	2,484,428	6,702,949	167,431	6,870,380
1956	2,542,152	75,131	2,617,283	7,054,406	208,519	7,262,925
1957	2,531,581	85,320	2,616,901	7,815,875	263,384	8,079,259
1958	2,361,047	87,940	2,448,987	7,114,958	265,015	7,379,973
1959	2,471,886	102,704	2,574,590	7,175,225	298,111	7,473,336
1960	2,452,659	122,274	2,574,933	7,067,797	352,384	7,420,181
1961	2,483,272	138,486	2,621,758	7,165,968	399,614	7,565,582
1962	2,503,979	172,210	2,676,189	7,273,791	500,260	7,774,051
1963	2,554,958	197,765	2,752,723	7,393,484	572,259	7,965,743
1964	2,569,436	217,386	2,786,822	7,391,746	625,332	8,017,078
1965	2,606,936	241,578	2,848,514	7,466,393	691,905	8,158,298
1966	2,726,037	301,726	3,027,763	7,856,835	869,588	8,726,423
1967	2,847,820	367,922	3,215,742	8,303,050	1,072,677	9,375,727
1968	2,857,058	471,984	3,329,042	8,406,116	1,388,710	9,794,826
1969	2,841,469	530,282	3,371,751	8,786,876	1,639,804	10,426,680
1970	2,933,985	583,465	3,517,450	9,320,228	1,853,498	11,173,726
1971	2,828,217	625,697	3,453,914	9,574,694	2,118,304	11,692,998
1972	2,834,053	621,315	3,455,368	9,607,440	2,106,258	11,713,698
1973	2,777,538	583,365	3,360,903	10,791,444	2,266,461	13,057,905
1974	2,666,887	535,698	3,202,585	17,970,771	3,609,778	21,580,549
1975	2,560,242	496,537	3,056,779	19,361,086	3,754,973	23,116,059
1976	2,508,356	467,824	2,976,180	20,420,899	3,808,641	24,229,540
1977	2,546,187	439,173	2,985,360	21,996,649	3,794,073	25,790,722
1978	2,761,891	416,325	3,178,216	24,747,514	3,730,310	28,477,824
1979	2,722,715	398,595	3,121,310	34,064,477	4,986,855	39,051,332
1980	2,766,716	379,649	3,146,365	57,791,998	7,930,018	65,722,016
1981	2,743,203	385,421	3,128,624	87,151,743	12,244,641	99,396,384
1982	2,751,434	405,281	3,156,715	78,470,898	11,558,614	90,029,512
1983	2,734,512	436,487	3,170,999	71,616,869	11,431,595	83,048,464
1984	2,780,219	469,477	3,249,696	71,952,068	12,150,065	84,102,132
1985	2,818,450	456,103	3,274,553	67,896,461	10,987,521	78,883,982
1986	2,710,628	457,624	3,168,252	33,909,956	5,724,876	39,634,833
1987	2,610,699	436,679	3,047,378	40,204,765	6,724,857	46,929,621
1988	2,543,168	435,955	2,979,123	31,993,053	5,484,314	37,477,367
1989	2,367,552	411,221	2,778,773	37,549,375	6,521,965	44,071,340
1990	2,289,757	394,930	2,684,687	45,863,833	7,910,448	53,774,281
1991	2,279,285	427,754	2,707,039	37,608,202	7,057,941	44,666,143

(a) Total dollar value distributed in proportion to percentages of production onshore and offshore

SOURCE: Total U.S. Production and Total Dollar Value at Wellhead, through 1974: U.S. Bureau of Mines
Total U.S. production: 1975-1991: Energy Information Administration, Petroleum Supply Annuals
U.S. offshore production: pre 1973: U.S. Geological Survey
U.S. offshore production: 1973-1974: U.S. Bureau of Mines
U.S. offshore production: 1975-1991: Energy Information Administration, Petroleum Supply Annuals
Distribution of production and value computed by the American Petroleum Institute for 1975-1990.

Section XI
Table 4

Estimated Worldwide Production of Natural Gas
Onshore vs Offshore

Year	Onshore Production	Offshore Production		Total World Production	Onshore Production	Offshore Production		Total World Production
	Millions of cubic feet				**Millions of cubic feet per day**			
1970	32,763,671	5,330,290	(a)	38,093,961	89,763	14,604	(a)	104,367
1971	NA	NA		41,188,396	NA	NA		112,845
1972	NA	NA		43,524,559	NA	NA		118,920
1973	NA	NA		46,143,601	NA	NA		126,421
1974	NA	NA		47,178,520	NA	NA		129,256
1975	39,985,557	7,532,217		47,517,774	109,550	20,636		130,186
1976	37,455,724	10,849,960		48,305,684	102,338	29,645		131,983
1977	42,518,548	7,581,542		50,100,090	116,490	20,771		137,261
1978	42,210,443	9,538,859		51,749,302	115,645	26,134		141,779
1979	42,748,966	10,092,084		52,841,050	117,120	27,650		144,770
1980	43,949,440	10,189,646		54,139,086	120,080	27,841		147,921
1981	43,327,868	10,787,132		54,115,000	118,706	29,554		148,260
1982	43,023,688	10,671,312		53,695,000	117,874	29,236		147,110
1983	44,850,720	10,917,880		55,768,600	122,879	29,912		152,791
1984	45,619,370	12,972,870		58,592,240	124,643	35,445		160,088
1985	47,135,740	13,247,940		60,383,680	131,879	33,556		165,435
1986	49,042,445	12,438,835		61,481,280	134,363	34,079		168,442
1987	53,115,765	12,359,995		65,475,760	145,523	33,863		179,386
1988	54,339,402	9,849,060		64,188,462	148,468	26,910		175,378
1989	56,360,350	10,205,035		66,565,385	154,412	27,959		182,371
1990	55,561,125	12,838,875		68,400,000	152,222	35,175		187,397
1991	56,409,655	13,505,730		69,915,385	154,547	37,002		191,549

(a) Does not reflect the total world offshore production since Communist Nation production figures are not available prior to 1973.

SOURCE: Offshore Production, 1970-1991: Offshore Magazine and U.S. Department of Interior
Total World Production, 1970-78: U.S. Energy Information Administration, World Natural Gas
1979-1980: Central Intelligence Agency, International Energy Statistical Review
1981-1991: British Petroleum, BP Statistical Review of World Energy

Estimated Worldwide Offshore Production of Natural Gas by Area

Year	Western Hemisphere United States	 Latin America	 Total	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	USSR	Total World
	(Billions of cubic feet)									
1970	3,287.4	27.6	3,315.0	1,568.0	28.7	22.2	396.5	5,330.3	NA	NA
1971	3,590.9	26.8	3,617.7	214.3	NA	35.8	654.9	NA	NA	NA
1972	3,883.9	26.3	3,910.2	252.6	NA	44.6	937.1	NA	NA	NA
1973	3,976.5	28.3	4,004.8	263.4	NA	102.8	1,095.0	NA	244.6	NA
1974	4,246.5	39.9	4,286.4	259.7	NA	135.9	1,314.0	NA	264.6	NA
1975	4,164.7	54.0	4,218.7	1,396.1	114.6	132.1	1,388.1	7,249.7	282.5	7,532.2
1976	4,315.4	123.3	4,438.7	259.9	183.0	233.9	5,406.2	10,521.7	328.3	10,850.0
1977	4,496.9	134.7	4,631.6	334.0	79.9	464.6	1,707.8	7,218.0	363.5	7,581.5
1978	5,134.0	219.7	5,353.8	365.4	80.7	897.5	2,453.2	9,150.5	388.4	9,538.9
1979	5,444.9	201.5	5,646.4	362.1	182.5	759.9	2,717.4	9,668.3	423.8	10,092.1
1980	5,382.2	223.3	5,605.5	546.1	185.9	712.6	2,691.2	9,741.3	448.4	10,189.6
1981	5,546.5	495.3	6,041.8	259.2	123.7	793.5	3,082.8	10,301.0	486.2	10,287.1
1982	5,368.2	576.0	5,944.2	115.7	211.7	832.9	3,081.3	10,185.8	518.3	10,704.1
1983	4,587.8	583.6	5,162.4	529.3	304.4	1,190.6	3,181.3	10,368.0	540.9	10,908.9
1984	5,045.8	1,260.1	6,305.9	504.4	279.6	1,420.4	4,081.6	12,591.9	556.3	13,148.2
1985	4,421.4	1,252.0	5,673.8	504.4	44.9	1,416.6	4,070.5	10,710.2	538.4	11,248.6
1986	4,373.8	1,023.1	5,393.6	460.1	48.5	1,961.5	4,098.6	11,962.3	474.5	12,436.8
1987	4,819.6	1,006.8	5,826.4	497.5	48.5	1,821.0	3,611.7	11,805.1	511.0	12,316.1
1988	4,696.1	644.2	5,327.5	526.0	56.2	1,871.4	2,427.3	10,208.3	485.5	10,693.8
1989	4,602.9	741.0	4,603.0	544.9	54.8	2,148.4	2,531.3	9,882.4	454.4	10,336.8
1990	4,423.1	905.2	5,328.3	610.3	56.2	2,233.1	3,877.8	12,105.6	459.9	12,565.5
1991	4,664.7	1,126.8	5,791.5	648.2	75.6	2,578.7	3,977.4	13,071.4	434.4	13,505.7
	(Millions of cubic feet per day)									
1970	9,007	75	9,082	4,296	79	61	1,086	14,604	NA	NA
1971	9,838	73	9,911	587	NA	98	1,794	NA	NA	NA
1972	10,612	72	10,684	690	NA	122	2,560	NA	NA	NA
1973	10,894	78	10,972	722	NA	282	3,000	NA	670	NA
1974	11,634	109	11,743	711	NA	372	3,600	NA	725	NA
1975	11,410	148	11,558	3,825	314	362	3,803	19,862	774	20,636
1976	11,791	337	12,128	710	500	639	14,771	28,748	897	29,645
1977	12,320	369	12,689	915	219	1,273	4,679	19,775	996	20,771
1978	14,066	602	14,668	1,001	221	2,459	6,721	25,070	1,064	26,134
1979	14,918	552	15,470	992	500	2,082	7,445	26,489	1,161	27,650
1980	14,706	610	15,316	1,492	508	1,947	7,353	26,616	1,225	27,841
1981	15,196	1,357	16,553	710	339	2,174	8,446	28,222	1,332	29,554
1982	14,707	1,488	16,195	317	580	2,282	8,442	27,816	1,420	29,236
1983	12,569	1,599	14,168	1,450	834	3,262	8,716	28,430	1,482	29,912
1984	13,786	3,443	17,229	1,382	764	3,675	10,875	33,925	1,520	35,445
1985	12,113	3,430	15,543	1,382	123	3,881	11,152	32,081	1,475	33,556

See notes and sources at end of table

Section XI
Table 5a

Estimated Worldwide Offshore Production of Natural Gas by Area

	Western Hemisphere									
Year	United States	Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	USSR	Total World
	(Millions of cubic feet per day)									
1986	11,983	2,803	14,786	1,257	133	5,374	11,229	32,779	1,300	34,079
1987	13,204	2,758	15,962	1,484	133	4,989	9,895	32,463	1,400	33,863
1988	12,831	1,765	14,596	1,441	154	5,127	6,650	27,968	1,330	29,298
1989	12,611	2,030	12,611	1,493	150	5,886	6,935	27,075	1,245	28,320
1990	12,118	2,480	14,598	1,672	154	6,118	10,624	33,166	1,260	34,426
1991	12,780	3,087	15,867	1,776	207	7,065	10,897	35,812	1,190	37,002

NA = Not Available

SOURCE: U.S. Production--U.S. Department of interior, Minerals Management Service
1991 U.S. Figure and Rest of World all years: Offshore Magazine

Production and Value of United States Natural Gas
Onshore - Offshore

Year	Production (Millions of Cubic Feet) Onshore	Offshore	Total	Dollar Value at Wellhead (Thousands of Dollars) Onshore(a)	Offshore(a)	Total
Cumulative to 1953	142,838,325	91,675	142,930,000	$ --	$ --	$ --
1954	8,671,935	70,611	8,742,546	875,370	7,131	882,501
1955	9,296,219	109,132	9,405,351	967,008	11,349	978,357
1956	9,957,253	124,670	10,081,923	1,070,405	13,407	1,083,812
1957	10,527,855	152,403	10,680,258	1,184,610	17,149	1,201,759
1958	10,806,691	223,607	11,030,298	1,290,786	26,706	1,317,492
1959	11,732,065	314,050	12,046,115	1,516,214	40,586	1,556,800
1960	12,362,872	408,166	12,771,038	1,732,763	57,207	1,789,970
1961	12,802,998	451,027	13,254,025	1,928,309	67,932	1,996,241
1962	13,246,639	629,983	13,876,622	2,047,904	97,397	2,145,301
1963	13,906,600	759,959	14,666,559	2,207,391	120,639	2,328,030
1964	14,622,301	839,842	15,462,143	2,257,990	129,699	2,387,689
1965	15,108,715	931,038	16,039,753	2,349,734	144,808	2,494,542
1966	15,846,670	1,359,958	17,206,628	2,489,133	213,626	2,702,759
1967	16,472,127	1,699,198	18,171,325	2,710,170	279,571	2,989,741
1968	17,002,857	2,319,543	19,322,400	2,788,319	380,369	3,168,688
1969	17,952,811	2,745,429	20,698,240	2,997,262	458,353	3,455,615
1970	18,633,254	3,287,388	21,920,642	3,183,940	561,740	3,745,680
1971	19,352,162	3,590,850	22,943,012	3,446,063	639,419	4,085,482
1972	18,647,813	3,883,885	22,531,698	3,459,876	720,586	4,180,462
1973	18,671,095	3,976,454	22,647,549	4,034,771	859,301	4,894,072
1974	17,354,017	4,246,505	21,600,522	5,281,137	1,292,265	6,573,402
1975	15,943,934	4,164,727	20,108,661	7,092,450	1,852,612	8,945,062
1976	15,637,042	4,315,396	19,952,438	9,069,032	2,502,744	11,571,776
1977	15,528,536	4,496,927	20,025,463	12,272,078	3,553,876	15,825,954
1978	14,839,994	5,134,039	19,974,033	13,430,195	4,646,305	18,076,500
1979	15,026,356	5,444,904	20,471,260	17,699,890	6,413,744	24,113,634
1980	14,996,551	5,382,236	20,378,787	23,586,880	8,465,302	32,052,182
1981	14,631,239	5,546,462	20,177,701	28,969,884	10,981,964	39,951,848
1982	13,053,625	5,466,050	18,519,675	32,075,219	13,421,546	45,496,765
1983	12,087,301	4,734,843	16,822,144	31,358,731	12,255,638	43,614,369
1984	13,009,577	5,220,061	18,229,638	34,560,892	13,843,719	48,404,611
1985	12,566,243	4,631,756	17,197,999	31,566,479	11,616,119	43,182,598
1986	12,202,344	4,588,566	16,790,910	23,705,889	8,901,936	32,607,825
1987	12,270,401	5,078,136	17,348,537	20,432,563	8,456,067	28,888,630
1988	12,670,039	5,171,435	17,841,474	21,425,617	8,745,134	30,170,751
1989	12,826,489	5,218,010	18,044,499	21,734,136	8,841,776	30,575,912
1990	13,052,284	5,509,312	18,561,596	22,255,698	9,402,478	31,658,176

See notes and sources at end of table

Production and Value of United States Natural Gas
Onshore - Offshore

(a) Total dollar value distributed in proportion to percentage of production onshore and offshore.

SOURCE: U.S. Total Production and Total Dollar Value at the Wellhead, 1953-1974: U.S. Bureau of Mines
1975-1989: U.S. Energy Information Administration, Natural Gas Annuals
U.S. Offshore Production, 1953-1974: U.S. Geological Survey
1975-1990: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

Total Offshore Wells Drilled in the United States (a)
Federal and State Leases
Alltime to January 1, 1992

	Exploratory Wells				Development Wells				Total Wells			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
Alaska												
State	19	7	58	84	278	19	34	331	297	26	93	416
Federal	1	--	28	29	1	--	3	4	2	--	31	33
Total	20	7	86	113	279	19	37	335	299	26	124	449
California												
State	20	10	139	169	3,245	22	310	3,577	3,265	32	454	3,751
Federal	25	0	166	191	394	8	22	424	419	8	188	615
Total	45	10	305	360	3,639	30	332	4,001	3,684	40	642	4,366
Oregon												
Federal	--	--	8	8	--	--	--	--	--	--	8	8
Washington												
State	--	--	2	2	--	--	--	--	--	--	2	2
Federal	--	--	4	4	--	--	--	--	--	--	4	4
Total	--	--	6	6	--	--	--	--	--	--	6	6
Pacific Coast												
Federal	2	--	39	41	16	--	1	17	18	--	40	58
Pacific Ocean												
State	39	17	199	255	3,523	41	344	3,908	3,562	58	549	4,169
Federal	28	--	245	273	411	8	26	445	439	8	271	718
Total	67	17	444	528	3,934	49	370	4,353	4,001	66	820	4,887
Florida												
State	--	--	15	15	--	--	--	--	--	--	15	15
Federal	--	--	9	9	--	--	--	--	--	--	9	9
Total	--	--	24	24	--	--	--	--	--	--	24	24
Louisiana												
State	65	113	1,016	1,194	1,940	597	868	3,405	2,006	710	1,885	4,601
Federal	212	306	3,734	4,252	6,847	4,236	4,439	15,522	7,059	4,542	8,173	19,774
Total	277	419	4,750	5,446	8,787	4,833	5,307	18,927	9,065	5,252	10,058	24,375
Texas												
State	41	213	740	994	60	164	130	354	101	377	870	1,348
Federal	11	112	1,323	1,446	67	484	682	1,233	78	596	2,005	2,679
Total	52	325	2,063	2,440	127	648	812	1,587	179	973	2,875	4,027

See notes and sources at end of table

Section XI
Table 7a

Total Offshore Wells Drilled in the United States (a)
Federal and State Leases
Alltime to January 1, 1992

	Exploratory Wells				Development Wells				Total Wells			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
N. Gulf of Mexico												
State	1	0	0	1	1	0	0	1	2	0	0	2
Federal	10	14	387	411	94	44	102	240	104	58	489	651
Total	11	14	387	412	95	44	102	241	106	58	489	653
Mississippi												
State	0	0	1	1	0	0	0	0	0	0	1	1
Federal	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	0	0	0	0	0	0	1	1
Alabama	--	4	4	8	0	6	6	12	0	10	10	20
State	--	3	1	4	0	0	0	0	0	3	1	4
Federal	--	7	5	12	0	6	6	12	0	13	11	24
Total												
Gulf of Mexico												
State	107	330	1,776	2,213	2,001	767	1,004	3,772	2,109	1,097	2,781	5,987
Federal	233	435	5,454	6,122	7,008	4,764	5,223	16,995	7,241	5,199	10,677	23,117
Total	340	765	7,230	8,335	9,009	5,531	6,227	20,767	9,350	6,296	13,458	29,104
Atlantic Ocean												
Federal	--	--	36	36	--	--	--	--	--	--	36	36
Grand Total												
State	146	347	1,975	2,468	5,524	808	1,348	7,680	5,671	1,155	3,330	10,156
Federal	261	434	5,735	6,431	7,419	4,772	5,249	17,440	7,680	5,207	10,984	23,871
Total	407	782	7,710	8,899	12,943	5,580	6,597	25,120	13,351	6,362	14,314	34,027

(a) Offshore wells are defined as those producing from beyond natural shore lines.

SOURCE: American Petroleum Institute

Section XI
Table 8

Accumulated Production State and Federal Offshore Leases
Alltime to January 1, 1991

	Oil & Lease Condensate M bbls	Percent of Total	Natural Gas MMCF	Percent of Total
Alaska				
State	913,689	100%	1,635,646	100%
Federal	--	--	--	--
California				
State	2,105,143	82%	807,905	68%
Federal	500,530	19%	385,468	32%
Subtotal	2,606,673		1,193,373	
West Coast				
State	3,018,832	86%	2,443,551	86%
Federal	500,530	14%	385,468	14%
Subtotal	3,519,362		2,829,019	
Louisiana				
State	1,509,145	16%	11,235,957	12%
Federal	8,087,998	84%	79,513,706	88%
Subtotal	9,597,142		90,749,663	
Texas				
State	39,112	13%	3,629,590	22%
Federal	254,652	87%	12,845,485	78%
Subtotal	293,764		16,475,075	
Gulf of Mexico				
State	1,548,257	16%	14,865,547	14%
Federal	8,342,650	84%	92,359,191	86%
Subtotal	9,890,906		107,224,738	
Total				
State	4,567,089	34%	17,309,098	16%
Federal	8,843,180	66%	92,744,659	84%
Grand Total	13,410,269		110,053,757	

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990

United States Outer Continental Shelf Oil and Gas Lease Sales

		Offered		Leased			Total	Average	Highest
Date	State	Tracts	Acres	Tracts	Acres	Total Bonus (Dollars)	First Year Rental (Dollars)	Bid Per Acre (Dollars)	Bid Per Acre (Dollars)
10/13/54	La.	199	748,819	90	394,721	116,378,476	1,184,175	295	1,220
11/09/54	Tex.	38	111,789	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,995	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,536	12,875
11/04/71	La.	18	55,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	96	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	508,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	142,154	144	675,587	1,428,261,330	2,026,812	2,114	39,111
Total (1954-1974)		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

See notes and sources at end of table

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered		Leased		Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
		Tracts	Acres	Tracts	Acres				
02/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	3,566
05/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
05/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
07/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
07/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
02/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
02/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
02/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
04/13/76	Ak.	189	1,008,499	76	409,057	599,836,587	1,226,718	1,369	11,023
08/17/76	MAL(a)	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
06/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
06/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
03/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
04/25/78	La.	87	392,894	57	262,250	503,820,339	789,770	1,921	11,038
04/25/78	Tex.	58	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,302
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
02/28/79	MAL(a)	109	620,557	39	222,038	40,001,631	718,848	180	6,832
06/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
07/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
07/31/79	Tx.	42	215,770	28	136,685	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	362,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak.	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA(b)	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
09/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
05/28/81	S.Ca.	111	603,613	60	320,567	2,088,881,824	1,037,904	6,516	65,014
06/30/81(d)	Ak.	175	996,308	1	5,694	170,496	18,432	30	417
07/21/81	GOM(c)	212	1,077,913	156	799,899	2,649,628,752	2,399,736	3,312	37,444
08/04/81	So. Atl.	285	1,622,557	47	267,580	342,766,174	866,304	1,281	18,228
09/29/81	Cook In.	153	858,247	13	73,157	4,405,899	236,856	60	407
10/20/81	GOM	209	1,081,364	102	508,287	1,243,468,752	1,524,903	2,446	53,313
12/08/81	MAL	253	1,440,376	51	290,352	323,659,000	921,600	1,115	7,284
Total (1954-1981)		9,852	48,865,030	4,349	21,295,046	37,436,689,316	67,363,224	76,653	

See notes and sources at end of table

Section XI
Table 9b

United States Outer Continental Shelf Oil and Gas Lease Sales

Date	State	Offered Tracts	Offered Acres	Leased Tracts	Leased Acres	Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
02/09/82	GOM	234	1,219,826	115	590,265	1,193,654,719	1,770,795	2,022	N.A.
06/11/82	So. Ca.	140	716,840	29	147,066	117,875,281	443,913	802	N.A.
08/05/82(d)	Atl,Ca.,Ak	554	3,142,068	36	204,955	11,149,450	663,552	54	N.A.
10/13/82	Ak.	338	1,825,770	121	662,861	2,055,632,336	2,146,112	3,101	N.A.
11/17/82	GOM	144	732,570	56	281,213	609,178,223	843,657	2,166	N.A.
03/08/83	GOM	125	665,478	11	58,117	37,570,900	174,360	646	N.A.
03/15/83	Ak-NB	418	2,379,751	59	335,898	317,873,372	1,087,488	946	N.A.
04/12/83	Ak-SG	479	2,688,787	96	540,917	426,458,830	1,751,248	788	N.A.
04/26/83	MAL	4,050	22,664,991	37	210,648	68,410,240	681,984	325	N.A.
05/25/83	CGOM	7,050	37,156,426	623	3,089,812	3,367,606,134	9,269,616	1,090	N.A.
07/26/83	SAL	3,582	20,392,985	11	62,625	13,362,040	202,752	213	N.A.
08/24/83	WGOM	5,848	32,620,248	406	2,246,005	1,501,712,517	6,738,015	668	N.A.
11/30/83	S.Ca.	137	768,341	8	43,801	16,022,336	141,808	366	N.A.
01/05/84	EGOM	8,868	50,631,513	156	897,786	310,586,261	2,693,358	346	N.A.
04/17/84	Ak.Nav.	5,036	28,048,995	180	1,024,772	624,491,331	2,784,366	609	N.A.
04/24/84	CGOM	6,502	34,743,780	453	2,278,129	1,323,036,649	6,834,537	581	N.A.
07/18/84	WGOM	5,446	30,038,593	361	1,949,186	844,850,488	5,847,639	433	N.A.
08/22/84	AK-Diap.	1,419	7,773,447	231	1,230,486	871,964,327	3,910,184	709	N.A.
10/17/84	S.Ca.	657	3,147,352	23	114,363	62,121,252	347,157	543	N.A.
05/22/85	CGOM	4,531	24,006,157	409	2,076,907	1,079,377,760	6,230,829	520	N.A.
08/14/85	WGOM	4,879	27,199,074	195	1,075,188	359,175,656	3,225,597	334	N.A.
12/18/85	EGOM	6,344	35,823,478	63	359,948	100,911,298	1,079,844	280	N.A.
04/30/86	CGOM	5,837	31,382,152	101	504,806	130,276,757	1,514,442	258	N.A.
08/27/86	WGOM	4,887	27,287,951	41	229,612	56,817,990	688,839	247	N.A.
04/22/87	CGOM	5,881	31,818,471	293	1,539,626	262,971,486	4,618,941	171	N.A.
08/12/87	WGOM	5,045	27,943,606	347	1,908,183	234,275,520	5,724,597	123	N.A.
02/24/88	CGOM	51	593,971	14	142,685	15,149,327	428,058	102	N.A.
03/16/88	Beaufort	3,344	18,277,806	202	1,110,764	118,574,936	3,596,192	103	N.A.
03/30/88	CGOM	6,229	33,580,661	662	3,416,716	404,612,164	10,250,277	112	N.A.
05/25/88	Chukchi	4,694	25,631,122	350	1,976,912	478,177,948	6,400,280	242	N.A.
08/31/88	WGOM	5,053	27,911,790	255	1,412,764	130,785,464	4,238,340	89	N.A.
10/11/88	N.Aleutian	990	5,603,472	23	121,754	95,439,500	394,208	784	N.A.
11/16/88	EGOM	8,149	46,417,392	90	513,348	41,582,298	1,540,047	73	N.A.
03/15/89	CGOM	5,970	32,123,675	574	2,892,487	397,513,998	8,677,605	134	N.A.
08/23/89	WGOM	5,043	27,973,997	475	2,688,380	263,753,883	8,065,140	96	N.A.
03/21/90	CGOM	5,667	3,493,461	525	2,604,259	427,413,211	7,812,927	163	N.A.
08/22/90	WGOM	4,792	26,295,305	300	1,659,187	162,442,246	4,977,606	96	N.A.
Total (1954-1990)		149,185	785,822,639	12,363	63,723,447	57,655,721,933	195,944,139	N.A.	N.A.

(a) Middle Atlantic
(b) North Atlantic
(c) Gulf of Mexico
(d) Resale

SOURCE: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics
U.S. Minerals Management Service, Federal Offshore Statistics

Section XI
Table 10

U.S. Outer Continental Shelf Revenue and Production Value
Percentage Cumulative Revenue of Cumulative Production Value
(Thousands of Dollars)

Year All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value
1953	--	--	1,359.6	30.7	967.9	2,358.2	2,358.2	5,036.9	5,036.9
1954	140,969.0	--	3,855.3	87.0	2,749.0	147,660.3	150,018.4	14,370.1	19,407.0
1955	108,528.7	--	3,406.4	122.0	5,140.0	117,197.1	267,215.5	27,060.7	46,467.6
1956	--	--	4,006.2	80.0	7,629.4	11,715.5	278,931.0	39,497.9	85,965.5
1957	--	68.6	3,270.1	110.3	11,391.2	14,840.2	293,771.3	61,072.6	147,038.1
1958	--	184.4	2,420.6	121.2	17,423.9	20,150.1	313,921.3	96,471.1	243,509.2
1959	89,747.0	171.0	2,285.7	85.0	26,540.0	118,828.7	432,750.1	150,472.5	393,981.8
1960	282,717.1	317.0	3,603.1	49.4	36,807.7	323,781.8	756,531.9	200,969.6	594,951.4
1961	--	314.1	3,073.9	37.1	46,733.7	51,345.4	807,877.3	273,636.6	868,587.8
1962	489,481.1	517.7	8,412.2	62.2	65,255.2	564,569.6	1,372,446.9	376,675.9	1,245,263.7
1963	12,807.3	668.3	8,435.2	53.0	75,373.9	98,963.0	1,471,410.2	450,866.5	1,696,130.2
1964	95,874.3	820.3	9,798.6	45.8	86,535.3	194,939.3	1,666,349.4	506,783.5	2,202,913.7
1965	33,740.3	1,072.7	8,731.4	38.5	99,656.3	146,445.4	1,812,794.8	594,222.7	2,797,136.5
1966	209,199.9	1,367.3	6,869.3	41.7	132,849.9	354,465.7	2,167,260.5	801,724.6	3,598,861.1
1967	510,109.7	1,891.5	6,208.9	41.4	153,432.4	675,859.2	2,843,119.7	947,214.7	4,546,075.8
1968	1,346,487.1	2,145.2	8,230.8	52.3	196,491.4	1,558,052.3	4,401,172.0	1,179,912.2	5,725,988.0
1969	111,660.7	1,923.6	8,312.6	41.7	235,681.8	362,029.2	4,763,201.2	1,443,870.5	7,169,858.4
1970	945,064.8	1,745.9	8,607.9	47.7	276,521.7	1,238,960.8	6,002,162.0	1,707,593.5	8,877,451.9
1971	96,304.5	1,891.0	7,742.0	32.3	340,634.9	456,012.3	6,458,174.3	2,135,677.1	11,013,129.0
1972	2,251,347.6	2,019.5	7,984.9	49.6	353,581.9	2,624,957.9	9,083,132.1	2,229,179.1	13,242,308.1
1973	3,082,462.6	2,391.2	8,948.8	52.7	389,735.8	3,494,981.4	12,578,113.6	2,486,864.9	15,729,172.9
1974	5,022,860.8	2,048.4	13,532.8	32.6	536,019.0	5,598,758.4	18,176,872.0	3,570,054.0	19,299,226.9
1975	1,088,133.2	2,085.9	17,522.0	39.5	594,725.5	1,723,325.1	19,900,196.9	3,924,914.9	23,224,141.8
1976	2,242,898.5	2,128.3	23,370.5	38.4	680,392.7	2,967,860.5	22,868,057.4	4,402,440.0	27,626,581.8
1977	1,568,564.7	1,679.0	19,830.0	21.1	890,469.8	2,509,742.3	25,377,799.7	5,774,056.4	33,400,638.3
1978	1,767,042.1	2,207.2	21,512.7	4.0	1,139,198.2	2,941,111.9	28,318,911.6	7,096,500.1	40,497,138.3
1979	5,078,861.7	2,088.5	20,287.3	6.6	1,512,017.7	6,616,592.1	34,935,503.7	9,273,278.3	49,770,416.6
1980	4,204,640.3	2,291.4	19,062.5	--	2,132,528.7	6,362,657.6	41,298,161.3	13,055,515.8	62,825,932.5
1981	6,652,980.9	2,250.3	21,731.0	--	3,287,279.4	9,965,512.5	51,263,673.7	20,199,823.2	83,025,755.7
1982	3,987,490.0	2,393.8	20,055.2	--	3,814,871.6	7,824,810.6	59,088,484.3	22,573,099.1	105,598,854.8
1983	5,749,016.4	4,463.7	32,463.1	--	3,454,318.1	9,240,261.2	68,328,745.5	21,540,887.5	127,139,742.3
1984	3,928,876.3	3,458.1	35,607.8	--	3,914,724.6	7,932,123.0	70,260,868.5	24,001,446.1	151,141,188.4
1985	1,557,650.7	4,067.3	61,999.1	--	3,612,782.8	5,262,530.6	81,509,193.3	22,153,497.0	173,294,685.5
1986	187,094.7	5,176.6	52,958.2	--	2,533,376.7	2,804,890.2	84,314,083.6	15,711,161.6	189,005,847.0
1987	497,247.0	21,399.3	74,642.7	--	2,337,034.9	2,944,453.1	87,258,536.6	14,575,635.2	203,581,482.2
1988	1,259,548.7	16,822.8	62,867.8	--	2,057,756.2	3,417,841.0	90,690,583.3	12,929,511.9	216,510,994.1
1989	645,646.9	38,890.9	79,247.7	--	2,118,785.5	2,915,175.0	93,605,758.3	13,352,682.7	229,863,676.8
1990	584,301.9	19,298.2	79,339.1	--	2,630,318.1	3,367,738.8	96,973,497.1	16,916,343.0	246,780,019.8
TOTAL ALL STATES:	55,829,356.5	152,259.2	781,593.1	1,423.3	39,807,732.9	96,973,497.1	96,973,497.1	246,780,019.8	246,780,019.8

See notes and sources at end of table

U.S. Outer Continental Shelf Revenue and Production Value Percentage Cumulative Revenue of Cumulative Production Value (Thousands of Dollars)

Note: Revenue = charges and/or collection--bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31,1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500--leases on appeal validated.

SOURCE: U.S. Department of the Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Section XI
Table 11

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
10/13/54	La.	$302,924,834	$116,378,476
11/9/54	Tex.	73,801,896	23,357,029
TOTAL		376,726,730	139,735,505
7/12/55	Tex.	9,027,610	8,437,462
7/12/55	La.	314,212,441	100,091,264
TOTAL		323,240,051	108,528,726
5/26/59	Fla.	1,711,872	1,711,872
8/11/59	La.	174,411,628	88,035,120
TOTAL		176,123,500	89,746,992
2/24/60	Tex.	56,400,897	35,732,031
2/24/60	La.	518,774,752	246,909,784
TOTAL		575,175,649	282,641,815
3/13/62	La.	314,218,540	177,260,305
3/16/62	Tex.	557,720	557,720
3/16/62	La.	604,799,998	267,775,677
10/9/62	La.	66,265,290	43,887,359
TOTAL		985,841,548	489,481,061
5/14/63	Cal.	13,989,953	12,807,587
4/28/64	La.	93,850,051	60,340,626
10/1/64	Ore.	43,049,543	27,768,772
10/1/64	Wash.	10,530,210	7,764,928
TOTAL		147,429,804	95,874,326
3/29/66	La.	275,384,739	88,845,963
10/18/66	La.	185,214,816	99,164,930
12/15/66	Cal.	89,937,020	21,189,000
TOTAL		550,536,575	209,199,893
6/13/67	La.	1,627,749,269	510,079,178
2/6/68	Cal.	1,293,601,113	602,719,262
5/21/68	Tex.	1,620,393,212	593,899,046
11/19/68	La.	398,430,736	149,868,789
TOTAL		3,312,425,061	1,346,487,097
1/14/69	La.	71,036,938	44,037,339
12/16/69	La.	230,460,743	66,908,196
TOTAL		301,497,681	110,945,535
7/21/70	La.	$163,451,158	$97,769,013
12/15/70	La.	2,877,429,559	846,784,660
TOTAL		3,040,880,717	944,553,673
11/4/71	La.	172,735,981	96,304,523
9/12/72	La.	1,599,155,464	585,827,925
12/19/72	La.	6,191,018,227	1,665,519,631
TOTAL		7,962,909,672	2,347,652,057
6/19/73	Tex.-La.	6,248,160,989	1,591,397,380
12/20/73	Miss.,La,Fla.	3,404,892,969	1,491,065,231
TOTAL		9,653,053,958	3,082,462,611

See notes and sources at end of table

Section XI
Table 11a

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
3/28/74	La.	6,474,003,574	2,092,510,854
5/29/74	Tex.	3,354,292,556	1,471,851,831
7/30/74	La.-Tex.	88,799,354	30,236,800
10/16/74	La.	2,514,518,419	1,427,242,455
10/16/74	La. royalty	7,238,500	1,018,875
TOTAL		12,438,852,403	5,022,860,815
2/04/75	Texas	484,721,874	274,690,955
5/28/75	La.-Tex.	402,752,335	232,916,050
7/29/75	La.-Tex.	317,001,333	163,214,006
12/11/75	S. Cal.	901,960,364	417,312,141
TOTAL		2,106,435,906	1,088,133,152
2/18/76	Fl.,La.,Tx.	428,003,629	175,976,493
4/13/76	Alaska	1,732,170,868	559,836,587
8/17/76	MAL(1)	3,153,411,802	1,127,936,425
11/16/76	La.-Tx.	833,015,950	379,148,962
TOTAL		6,146,602,249	2,242,898,467
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432
10/27/77	Alaska	643,559,393	388,488,081
	(Royalty)	33,516,288	9,983,232
TOTAL		3,605,166,895	1,568,564,745
3/28/78	S. Al	150,927,700	100,743,443
4/25/78	La.-Tx.	1,559,345,259	733,656,893
10/31/78	Al. Fla.,Ms.	87,592,568	61,176,730
12/19/78	La.-Tx.	2,355,263,307	871,464,998
TOTAL		4,153,128,834	1,767,042,064
2/28/79	MAL(a)	$66,005,881	$40,001,631
6/29/79	Ca.	994,683,700	572,825,418
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022
11/27/79	La.-Tx.	4,683,195,907	1,913,337,938
12/11/79	Ak.	945,445,102	488,691,138
12/18/79	NA(b)	1,270,789,889	816,516,546
TOTAL		11,294,111,099	5,078,861,693
9/30/80	La.	7,109,464,692	2,676,927,673
10/21/80	Ak.	197,417,470	109,751,073
11/18/80	Tx.	3,500,570,271	1,417,961,511
TOTAL		10,807,452,033	4,204,640,257
5/28/81	Ca.	4,885,810,689	2,038,566,639
6/30/81(d)	Ak.	5,582,362	170,496
7/21/81	GOM(c)	5,227,548,535	2,649,628,752
8/04/81	So. Atl.	561,050,365	342,766,174
9/29/81	Co. In.	4,697,309	4,405,899
10/20/81	GOM	2,402,400,552	1,243,468,752
12/08/81	MAL	578,952,000	323,659,000
TOTAL		13,666,041,812	6,602,665,712

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
2/09/82	GOM	2,683,699,843	1,193,654,719
6/11/82	Ca.	210,486,278	117,875,281
8/05/82	Atl.,Ca.,Ak.	14,439,195	11,149,450
10/13/82	Ak.	4,589,972,518	2,055,632,336
11/17/82	GOM	1,185,091,610	609,178,223
TOTAL		8,683,689,444	3,987,490,009
3/08/83	GOM	48,755,129	37,570,900
3/15/83	Ak.	371,803,984	317,873,372
4/12/83	Ak.	547,731,283	426,458,830
4/26/83	MAL	86,822,680	68,410,240
5/25/83	GOM	4,582,847,288	3,367,606,134
7/26/83	SAL	14,562,040	13,362,040
8/24/83	GOM	2,350,359,669	1,501,712,517
11/30/83	C.Ca.	24,045,646	16,022,336
TOTAL		8,026,927,719	5,749,016,369
1/05/84	EGOM	500,261,361	310,586,261
4/17/84	Ak.Nav.	1,148,701,653	624,491,331
4/24/84	CGOM	2,126,776,904	1,323,036,649
7/18/84	WGOM	1,263,576,675	844,850,488
8/22/84	Ak-Diap.	1,365,968,674	871,964,327
10/17/84	S. Ca.	73,163,686	62,121,252
TOTAL		6,478,448,953	4,037,050,308
05/22/85	CGOM	$1,566,926,725	$1,079,377,760
08/14/85	WGOM	519,116,036	359,175,656
12/18/85	EGOM	155,241,798	100,911,298
TOTAL		2,241,284,559	1,539,464,714
04/30/86	CGOM	164,135,937	130,276,757
08/27/86	WGOM	69,498,490	56,817,990
TOTAL		233,634,427	187,094,747
04/22/87	CGOM	341,540,856	262,971,486
08/12/87	WGOM	310,835,932	234,275,520
TOTAL		652,376,788	497,247,006
02/24/88	CGOM	20,792,841	15,149,327
03/16/88	Beaufort	139,194,672	115,261,636
03/30/88	CGOM	592,797,316	388,730,457
05/25/88	Chukchi	666,232,384	478,032,631
08/31/88	WGOM	188,974,839	125,352,889
10/11/88	N.Aleutian	114,067,500	95,439,500
11/16/88	EGOM	47,559,746	37,610,898
TOTAL		1,769,619,298	1,255,577,338
03/15/89	CGOM	477,045,923	388,422,537
08/23/89	WGOM	382,977,309	257,224,333
TOTAL		860,023,232	645,646,870

See notes and sources at end of table

U.S. Outer Continental Shelf Oil and Gas Sales
Total Bonus vs. Total Amount of all Bids Received

Date of Sale	State	Total Amount of all Bids Received	Total Bonus
03/21/90	CGOM	589,547,008	424,334,314
08/22/90	WGOM	240,912,740	159,967,604
TOTAL		830,459,748	584,301,918

(a) Middle Atlantic
(b) North Atlantic
(c) Gulf of Mexico
(d) Resale

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Section XI
Table 12

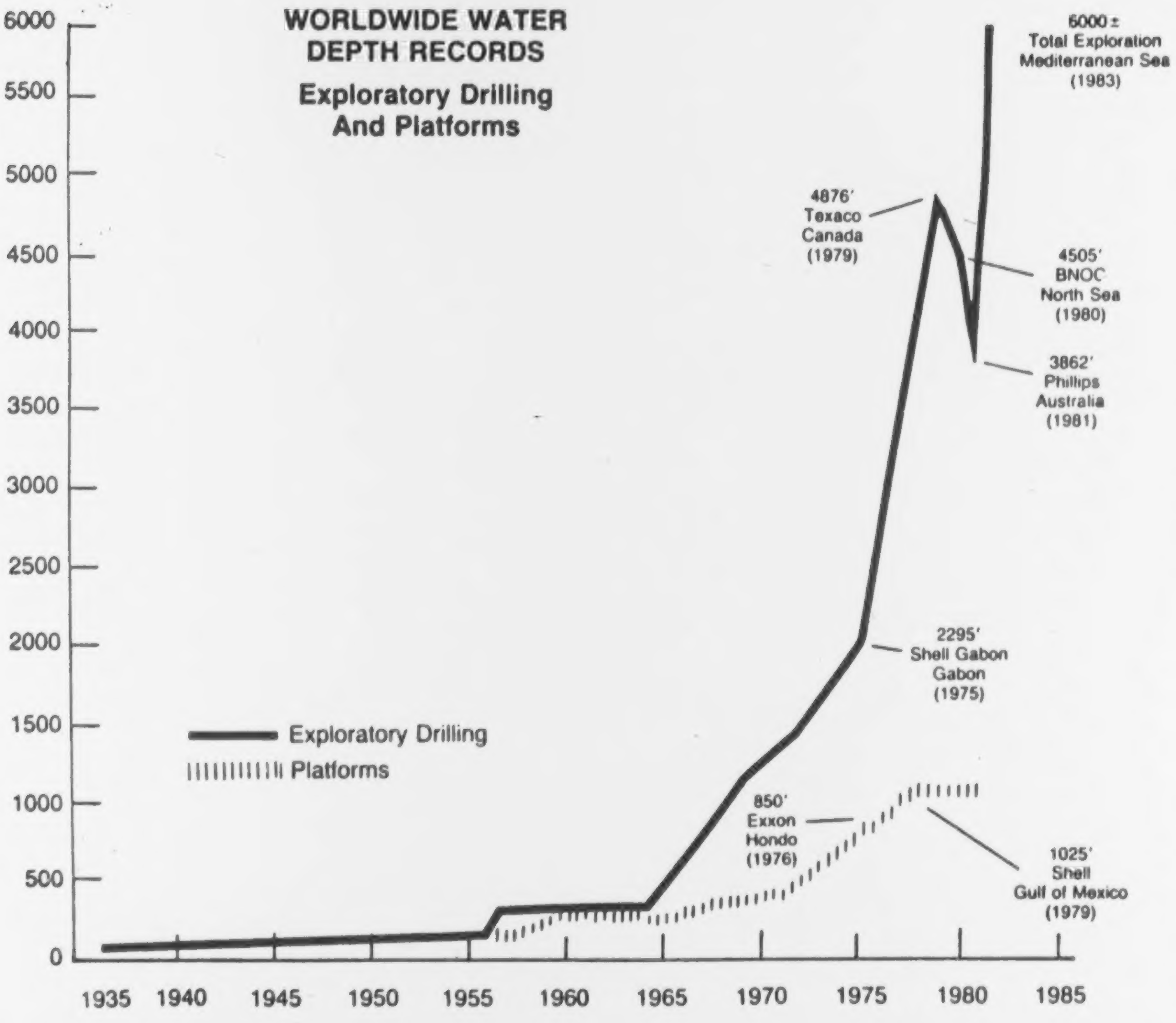
Annual Installations and Removals of Offshore Production Platforms in Federal Waters as of December 31, 1990.

Year	Alaska OCS(a)		Atlantic OCS(a)		Gulf of Mexice OCS		Pacific OCS		Year's Net Platform Additions
	Installations	Removals	Installations	Removals	Installations	Removals	Installations	Removals	
1953-60	0	0	0	0	474	7	0	0	467
1961	0	0	0	0	111	0	0	0	111
1962	0	0	0	0	123	0	0	0	123
1963	0	0	0	0	86	2	0	0	84
1964	0	0	0	0	130	0	0	0	130
1965	0	0	0	0	126	5	0	0	121
1966	0	0	0	0	116	2	0	0	114
1967	0	0	0	0	134	0	1	0	135
1968	0	0	0	0	107	1	3	0	109
1969	0	0	0	0	105	1	1	0	105
1970	0	0	0	0	124	1	0	0	123
1971	0	0	0	0	101	4	0	0	97
1972	0	0	0	0	121	6	0	0	115
1973	0	0	0	0	98	1	0	0	97
1974	0	0	0	0	52	18	0	0	34
1975	0	0	0	0	100	32	0	0	68
1976	0	0	0	0	111	31	1	0	81
1977	0	0	0	0	116	15	1	0	102
1978	0	0	0	0	164	25	0	0	139
1979	0	0	0	0	159	43	2	0	118
1980	0	0	0	0	169	32	3	0	140
1981	0	0	0	0	171	24	2	0	149
1982	0	0	0	0	192	21	0	0	171
1983	0	0	0	0	177	36	1	0	142
1984	0	0	0	0	229	47	1	0	183
1985	0	0	0	0	214	68	3	0	149
1986	0	0	0	0	109	33	1	0	77
1987	0	0	0	0	119	24	1	0	96
1988	0	0	0	0	178	102	0	0	76
1989	0	0	0	0	188	100	2	0	90
1990	0	0	0	0	174	107	0	0	67
Total	0	0	0	0	4,578	788	23	0	3,813

(a) There is no production in the Federal Waters offshore of Alaska or on the Atlantic OCS.

NOTE: Gulf of Mexico OCS platform data includes accounting adjustments for 1983, 1984, and 1985. The removal figures reflect earlier transfers of 5 Federal wells from Federal to State jurisdiction and the conversion of 3 from production to service use. The 1985 installation total includes 47 platforms counted during audits completed in 1985.

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.



SOURCE: Offshore Magazine, June 20, 1982

Section XI
Table 14

Blowouts and Spillage from Federal Offshore Oil Wells Compared to Annual Production on the OCS, 1971-1990

Year	No. of Well Starts	Drilling Blowouts				Nondrilling Blowouts						Total No. of Blowout	Spills in Barrels	Production MMbbls.
		Exploration		Development		Production		Workover		Completion				
		No.	Bbl	No.	Bbl	No.	Bbl	No.	Bbl	No.	Bbl			
1971	851	2	0	0	0	2	450	1	0	0	0	5	450	418.5
1972	845	2	0	1	0	0	0	0	0	0	0	3	0	411.9
1973	820	2	0	1	0	0	0	0	0	0	0	3	0	394.7
1974	802	0	0	1	0	2	75	1	200	0	0	4	275	360.6
1975	842	4	0	0	0	0	0	1	0	1	0	6	0	330.2
1976	1,078	1	0	4	0	1	0	0	0	0	0	6	0	316.9
1977	1,240	2	0	2	0	0	0	3	0	2	0	9	0	303.9
1978	1,164	4	0	5	0	0	0	2	0	1	0	12	0	292.3
1979	1,140	3	0	2	0	0	0	0	0	0	0	5	0	285.6
1980	1,158	3	0	1	0	1	1	2	0	1	0	8	1	277.4
1981	1,208	2	0	1	0	0	0	2	64	5	0	10	64	289.8
1982	1,255	0	0	4	0	0	0	3	0	1	0	8	0	321.2
1983	1,180	3	0	4	0	0	0	1	0	1	0	9	0	348.3
1984	1,352	3	0	2	10	0	0	1	0	0	0	6	10	370.2
1985	1,169	2	0	0	0	1	40	1	0	0	0	4	40	389.3
1986	694	1	0	0	0	0	0	1	0	0	0	2	0	389.2
1987	845	3	0	1	60	3	0	1	0	0	0	8	60	366.1
1988	950	0	0	1	0	0	0	0	0	0	0	1	0	320.7
1989	947	2	0	3	0	0	0	2	0	0	0	7	0	305.1
1990	1,018	1	0	1	0	0	0	2	8	0	0	1	8	324.4
Total	20,558	40	0	34	70	10	566	24	272	12	0	120	908	6,816.3

Note: Only crude oil and condensate blowout spillage is given here, in barrels for the 116 blowouts that occurred during the past 19 years. Production totals are given in millions of barrels (MMbbl). Information on other than oil and condensate spills may be obtained from the Chief, Engineering and Technology Division, MMS, Herndon, Virginia 22070.

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Pollution Spills and Seeps of one Barrel or More From Offshore Wells on Federal Leases(a)
1970-1990

Year	Gulf of Mexico: No. Spills	Gulf of Mexico: Bbls. Spilled	Pacific: No. Spills	Pacific Bbls. Spilled(b)
1970	7	83,823	0	--
1971	10	1,110	0	--
1972	2	181	0	10,325
1973	3	21,935	0	1,825
1974	8	23,973	0	1,460
1975	0	0	0	1,460
1976	60	4,740	0	1,458
1977	60	919	0	1,458
1978	62	1,382	0	1,456
1979	94	536	0	1,456
1980	42	1,775	1	1,458
1981	50	5,503	6	1,488
1982	42	124	3	1,464
1983	59	520	3	916
1984	47	224	5	770
1985	38	581	3	374
1986	37	234	2	376
1987	20	283	2	376
1988	32	15,285	1	2
1989	25	476	3	8
1990	37	14,728	1	100

(a) Beginning with 1988 totals are for all spills, previous years (1970-1987) are crude and condensate spills only.
(b) This column shows estimated seepage from the Santa Barbara blowout of January 28,1969. Seepage following the blowout has been variously estimated at 10,000 to 71,500 barrels, but totals above do not include the first 10 days. The figure for 1972 includes seepage between February 7, 1969 and December 31,1972

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

Section XI
Table 16

Historical Data on Leasing
Continental Seabeds Adjacent to the United States
(Thousands of Square Statute Miles)

Region	State Lands(a)	OCS "Shelf"(b)	Continental Slope(c)	Total OCS
Hawaii	--	0.4 (d)	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5 559,040,000 Ac.	478.7 306,368,000 Ac.	1,352.2 865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
Total Federal OCS Acreage Ever Offered for Lease Through 8/22/84	329,472,769	58.9	38.1
Total Federal OCS Leased Through 8/22/84	37,147,323	6.6	4.3
Total Federal OCS Currently Under Lease 12/31/83(e)	18,500,000	3.3	2.1

(a) Areas within three nautical miles of coastline, except for Texas and Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.
(b) Between state limit and 200 meter depth
(c) Between 200 and 2,500 meter depths
(d) Includes state areas.
(e) Approximate acreage figure is used because of constant company relinquishments of leases--approximately 200 leases relinquished each year.

Source: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

Federal Offshore Planning Areas Ranked by January 1, 1990 Revised Conditional Mean Estimates of Undiscovered, Economically Recoverable Resources

PRESTO(a) Ranking of OCS Areas	Estimated Acres in Millions	Marg. Prob. of H(b)	Oil in Barrels	Gas in Tcf	Risked Estimates in Bbls of Oil Equivalent
1. Central Gulf of Mexico	48	1.00	3.82	37.66	10.52
2. Western Gulf of Mexico	36	1.00	1.58	25.40	6.10
3. Southern California	30	1.00	1.31	3.01	1.84
4. Chukchi Sea, AK(c)	30	0.23	5.96	0.00	1.36
5. Eastern Gulf of Mexico	76	1.00	0.95	1.68	1.25
6. Northern California	29	0.78	0.89	2.45	1.03
7. Central California	15	0.90	0.50	0.82	0.58
8. Mid-Atlantic	82	0.44	0.22	5.35	0.52
9. Beaufort Sea, AK(c)	52	0.23	1.66	0.00	0.38
10. South Atlantic	106	0.23	0.21	4.60	0.24
11. North Atlantic	51	0.39	0.11	2.54	0.22
12. Washington-Oregon	48	0.25	0.19	1.97	0.14
13. Straits of Florida	11	0.19	0.34	0.57	0.08
14. Navarin Basin, AK(c)	37	0.03	1.14	0.00	0.03
15. Gulf of Alaska(c)	132	0.04	0.98	0.00	0.04
16. St. George Basin, AK(c)	70	0.02	0.39	0.00	0.01
17. N. Aleutian Basin, AK(c)	33	0.02	0.61	0.00	0.01
18. Kodiak, AK(c)	89	0.03	0.43	0.00	0.01
19. Norton Basin, AK(c)	25	<0.01	0.58	0.00	neg.
20. Cook Inlet, AK(c)	5	<0.01	0.17	0.00	neg.
21. Hope Basin, AK(c)	12	<0.01	0.50	0.00	neg.
22. Shumagin, AK(c)	83	0.01	0.28	0.00	neg.
23. Aleutian Arc, AK(c)	161	neg.	neg.	neg.	neg.
24. Aleutian Basin, AK(c)	47	neg.	neg.	neg.	neg.
25. Bowers Basin, AK(c)	90	neg.	neg.	neg.	neg.
26. St. Mathew-Hall, AK(c)	54	neg.	neg.	neg.	neg.

(a) Probalistic Resource Estimates Offshore
(b) Marginal probability of hydrocarbons (H), given here as a decimal fraction of 1.00 as the certainty, expresses the chance of occurrence of oil and gas in commercial volumes, using existing technology and under current economic conditions.
(c) Gas in Alaska was assumed to be noneconomic as of 1/1/90. The conditional estimates represent the possible range of undiscovered resources present given the conditions that hydrocarbons exist in the area of study. Risked resources incorporate the probability that an area is devoid of commercial hydrocarbons. Oil is given in billions of barrels and gas in trillions of cubic feet. Conditional gas estimates are converted to energy equivalent barrels of oil BOE value which is added to the liquid volume for a total BOE figure. The conditional mean is multiplied by the marginal probability to yield the risked total in billions of BOE. Areas considered to have little or no potential for commercial development are designated as negligible (neg.).

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics 1990.

United States Offshore Crude Oil Production by State
(Thousands of Barrels)

Year	Alaska		California		Louisiana		Texas		Total U.S.	
	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
1965	31.9	0	42,772.0	0	53,253.0	144,964.9	553.0	3.7	96,609.9	144,968.6
1966	2,652.7	0	53,294.0	0	56,697.4	187,831.5	367.6	882.6	113,011.7	188,714.1
1967	15,933.0	0	64,807.0	0	65,040.2	218,995.8	280.1	2,865.8	146,060.3	221,861.6
1968	52,524.6	0	83,279.0	2,059.9	66,648.9	263,825.4	536.0	3,110.6	202,988.5	268,995.9
1969	60,887.0	0	89,061.0	9,940.8	67,250.7	300,159.3	223.7	2,759.9	217,422.4	312,860.0
1970	70,472.0	0	79,504.2	24,987.6	72,063.2	333,411.5	779.5	2,247.0	222,818.9	360,646.2
1971	66,793.3	0	70,819.0	31,103.5	69,061.4	385,760.4	474.0	1,685.0	207,147.7	418,548.9
1972	64,336.6	0	73,168.5	22,562.2	71,184.6	387,590.7	739.8	1,733.0	209,429.4	411,885.9
1973	62,427.3	0	70,582.6	18,915.3	54,957.7	374,196.9	667.6	1,617.8	188,635.1	394,730.0
1974	60,630.2	0	67,206.8	16,776.7	46,688.6	342,435.5	578.1	1,381.8	175,103.7	360,594.1
1975	60,709.2	0	64,274.0	15,304.8	40,962.3	313,592.6	353.8	1,340.1	166,299.3	330,237.5
1976	55,190.9	0	56,646.1	13,978.6	38,358.2	301,887.0	708.5	1,054.6	150,903.6	316,920.1
1977	50,575.7	0	48,223.9	12,267.6	33,804.7	290,771.6	2,620.3	909.0	135,224.6	303,948.2
1978	45,712.5	0	43,524.6	12,085.9	32,365.5	278,071.5	2,457.6	2,107.6	124,060.2	292,265.0
1979	38,922.7	0	42,202.6	10,961.1	29,359.9	271,008.9	2,544.1	3,595.5	113,029.3	285,565.5
1980	32,726.5	0	39,978.9	10,198.9	27,591.9	256,688.1	1,962.6	10,502.0	102,259.9	277,389.0
1981	28,447.1	0	39,164.7	19,605.0	26,219.7	255,875.7	1,823.8	14,284.7	95,655.2	289,765.4
1982	24,680.9	0	39,810.6	28,434.2	24,825.6	275,513.5	1,754.3	17,263.8	91,071.4	321,211.5
1983	21,911.9	0	37,702.6	30,527.5	24,314.5	298,093.6	2,286.5	19,710.2	86,215.5	348,331.2
1984	19,631.0	0	39,508.3	30,254.3	26,852.7	318,024.6	2,100.6	21,960.1	88,092.8	370,239.0
1985	12,644.2	0	39,588.8	29,781.5	23,747.8	338,901.9	2,175.6	20,641.0	78,156.5	389,324.3
1986	15,349.2	0	34,697.5	29,227.8	25,719.9	340,152.3	2,091.5	19,835.9	77,858.1	389,216.0
1987	13,941.7	0	30,360.4	33,556.7	24,901.8	307,950.9	1,788.8	24,634.1	70,992.7	366,141.7
1988	13,429.4	0	28,202.9	32,615.1	24,083.9	261,936.5	1,499.6	26,115.8	67,215.8	320,667.4
1989	13,269.9	0	25,397.0	33,072.2	22,563.1	246,207.7	1,618.3	25,887.8	62,848.3	305,167.7
1990	9,069.9	0	23,559.1	33,312.8	22,829.5	264,670.6	1,768.8	26,439.9	57,227.4	324,423.2

SOURCE: U.S. Department of Interior, Minerals Management Service, Federal Offshore Statistics, 1990.

United States Offshore Dry Natural Gas Production by State(a)
(Millions of Cubic Feet)

	Alaska		California		Louisiana		Texas		Total U.S.	
Year	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal
1965	10.9	0	40,770.0	0	217,148.0	645,589.5	27,520.0	0	285,449.0	645,589.5
1966	1,200.1	0	46,839.0	0	282,848.8	965,387.8	21,623.0	42,059.4	352,510.9	1,007,447.2
1967	9,046.3	0	46,732.0	0	395,359.1	1,087,262.8	60,844.6	99,952.9	511,981.9	1,187,215.8
1968	25,806.8	0	85,765.0	799.7	493,015.1	1,413,467.6	190,778.3	109,910.8	795,365.1	1,524,178.1
1969	43,243.5	0	79,058.0	4,845.9	557,680.7	1,822,544.1	110,959.5	127,097.0	790,941.7	1,954,487.0
1970	83,139.5	0	58,892.2	12,229.1	595,318.6	2,273,147.0	131,360.8	133,300.4	868,711.1	2,418,676.6
1971	86,326.3	0	45,776.3	15,671.5	573,461.1	2,634,014.0	108,242.1	127,357.9	813,806.1	2,777,043.4
1972	76,818.6	0	34,747.1	10,033.6	603,638.1	2,881,364.7	130,126.0	147,156.5	845,329.9	3,038,554.8
1973	74,655.1	0	30,596.3	7,286.5	557,250.2	3,055,628.2	102,364.3	148,673.6	764,866.0	3,211,588.4
1974	74,672.5	0	28,931.1	5,573.6	518,580.6	3,349,170.9	109,597.3	159,979.4	731,781.5	3,514,723.9
1975	76,294.5	0	23,320.0	3,951.6	508,462.0	3,332,169.1	97,957.2	122,572.8	706,033.8	3,458,693.5
1976	74,142.8	0	18,983.9	3,475.2	512,934.9	3,499,865.9	113,411.0	92,582.4	719,472.6	3,595,923.5
1977	77,539.5	0	14,237.2	3,290.0	486,096.2	3,647,513.7	181,306.7	86,943.3	759,179.6	3,737,746.9
1978	74,910.5	0	14,196.1	3,472.3	489,728.7	4,149,731.1	170,142.6	231,857.5	748,977.9	4,385,060.9
1979	73,792.4	0	13,550.3	2,866.8	476,965.2	4,158,521.7	207,617.3	511,590.6	771,925.2	4,672,979.1
1980	64,543.2	0	13,074.7	3,107.0	408,784.2	4,013,707.4	254,377.2	624,642.5	740,779.3	4,641,457.0
1981	72,307.3	0	13,470.7	12,766.3	374,439.8	4,106,494.6	236,707.2	730,275.8	696,924.9	4,849,536.7
1982	68,392.5	0	14,007.2	17,750.9	359,349.3	3,803,740.1	246,966.9	858,020.3	688,715.9	4,679,511.3
1983	68,836.8	0	13,853.3	16,024.3	316,254.0	3,173,892.4	148,134.3	850,817.2	547,078.3	4,040,733.9
1984	68,688.2	0	13,836.6	27,806.9	313,362.3	3,578,740.6	112,090.6	931,293.6	507,977.7	4,537,841.1
1985	62,796.0	0	19,483.1	49,164.2	229,971.7	3,116,884.5	108,130.7	834,926.5	420,381.5	4,000,975.2
1986	63,351.0	0	18,252.9	42,689.0	228,128.9	2,927,832.3	115,126.3	978,370.6	424,859.1	3,948,891.8
1987	61,233.3	0	13,004.6	40,986.2	221,170.4	3,180,107.2	98,586.1	1,204,488.3	393,994.4	4,425,581.7
1988	66,970.8	0	10,715.2	34,570.6	210,430.8	3,096,881.6	98,077.5	1,178,422.6	386,194.3	4,309,874.8
1989	82,115.8	0	9,028.4	28,574.9	200,000.8	3,006,576.1	111,506.5	1,165,113.0	402,651.5	4,200,263.9
1990	104,812.2	0	8,005.0	38,531.8	178,663.0	3,706,324.0	108,995.5	1,348,075.4	400,475.7	5,092,931.2

(a) Includes casinghead gas.

SOURCE: U.S. Department of Interior, Mineral Management Service, Federal Offshore Statistics, 1990.

SECTION XII. TRANSPORTATION

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United States Gas Utility Industry
Miles of Pipeline and Main, by Type(a)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1947	27.1	92.9	211.5	331.4
1948	29.2	97.0	220.1	346.4
1949	30.9	102.9	230.3	364.1
1950	32.9	113.1	241.6	387.5
1951	34.7	120.5	252.5	407.7
1952	38.4	123.4	263.5	425.3
1953	41.5	130.4	274.5	446.4
1954	43.8	139.0	287.7	470.5
1955	45.7	145.9	305.1	496.7
1956	47.6	153.8	323.8	525.2
1957	50.0	160.1	338.7	548.8
1958	52.0	165.4	354.1	571.5
1959 (b)	54.1	174.3	371.4	599.8
1960 (c)	55.8	183.7	391.4	630.9
1961	56.7	191.9	410.4	659.0
1962	58.7	196.4	428.1	683.2
1963	60.7	200.9	448.3	709.9
1964	61.0	205.4	469.8	736.2
1965	61.7	211.3	494.5	767.5
1966	63.0	217.0	519.6	799.6
1967	63.7	225.4	539.2	828.3
1968	64.4	234.5	562.7	861.6
1969	64.9	248.1	578.6	891.6
1970	66.3	252.2	594.8	913.3
1971	66.2	254.8	610.4	931.4
1972	66.9	258.1	623.1	948.1
1973	65.9	263.1	633.8	962.9
1974	66.4	262.2	645.6	974.1
1975	68.5	262.6	648.2	979.3
1976	70.3	258.2	659.1	987.7
1977	71.5	260.5	666.9	998.9
1978	74.9	260.6	677.5	1,013.0
1979	77.8	263.5	688.5	1,029.8
1980	83.5	266.5	701.8	1,051.8
1981	86.2	269.5	714.1	1,069.8
1982	90.5	271.7	721.2	1,083.4
1983	91.9	273.5	729.7	1,095.1
1984	93.7	271.9	736.8	1,102.4
1985	94.3	271.2	753.4	1,118.7
1986	93.8	271.0	769.3	1,134.1
1987	93.6	273.8	783.8	1,151.2
1988	92.3	275.4	801.3	1,169.0

See notes and sources at end of table

Section XII
Table 1a

United States Gas Utility Industry
Miles of Pipeline and Main, by Type(a)
(Thousands)

Year	Field and Gathering	Transmission Pipeline	Distribution Main	Total
1989	90.6	276.3	818.1	1,185.0
1990	89.5	280.1	836.7	1,206.3

(a) Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.
(b) These figures and those for subsequent years include Hawaii.
(c) These figures and those for subsequent years include Alaska.

SOURCE: American Gas Association, Gas Facts

Section XII
Table 2

Total Crude Oil and Petroleum Products Transported in the U.S. by Method of Transportation (in Billions of Ton Miles)

Year	Pipelines Ton Miles	Pipelines Percent of Total	Water Carriers Ton Miles	Water Carriers Percent of Total	Motor Carriers(a) Ton Miles	Motor Carriers(a) Percent of Total	Railroads Ton Miles	Railroads Percent of Total	Total Crude and Products Ton Miles
1972	475.8	56.7	330.0	39.3	23.0	2.7	10.0	1.2	838.8
1973	507.0	60.1	296.8	35.1	25.0	3.0	14.8	1.8	843.6
1974	506.0	59.7	297.0	35.0	29.0	3.4	15.7	1.9	847.7
1975	507.0	59.9	298.0	35.2	27.6	3.3	14.1	1.7	846.7
1976	515.0	59.4	306.9	35.4	32.5	3.8	13.3	1.5	867.7
1977	546.0	59.1	333.3	36.1	29.6	3.2	14.5	1.6	923.4
1978	585.8	50.5	530.6	45.7	30.6	2.7	13.2	1.1	1,160.2
1979	608.3	51.8	522.9	44.5	30.1	2.6	13.5	1.2	1,174.8
1980	588.2	47.2	617.8	49.6	26.8	2.2	12.5	1.0	1,245.3
1981	563.7	46.3	617.2	50.7	24.9	2.0	12.6	1.0	1,218.4
1982	565.7	46.4	616.9	50.6	22.7	1.9	12.9	1.1	1,218.2
1983	556.1	45.5	630.5	51.5	25.1	2.1	11.8	1.0	1,223.5
1984	568.1	48.1	570.7	48.4	29.2	2.5	12.2	1.0	1,180.2
1985	564.3	47.2	590.4	49.4	28.7	2.4	12.1	1.0	1,195.5
1986	577.9	48.7	568.1	47.8	29.7	2.5	12.1	1.0	1,187.8
1987	586.8	49.1	566.5	47.4	30.4	2.5	12.1	1.0	1,195.8
1988	601.1	50.6	543.7	45.8	30.5	2.6	12.8	1.1	1,188.1
1989	584.2	53.4	466.2	42.6	30.4	2.8	13.4	1.2	1,094.2
1990	577.1	53.7	454.5	42.3	29.8	2.8	13.8	1.3	1,075.2

(a) Estimate.

SOURCE: 1972-1989: Association of Oil Pipelines, Shifts in Petroleum Transportation
1990: Eno Foundation for Transportation, Transportation in America, June 1991

Section XII
Table 3

United States Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
(Ocean-going vessels of 2000 gross tons and over)

	Actual Fleet				
Year (a)	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan.1, 1947	951	8,784,894	14,035,000	13.9	800.5
Oct.1 1947	744	6,995,223	11,171,400	14.1	646.4
April 1 1948	621	5,878,786	9,395,500	14.0	541.9
Jan.1, 1949	593	5,656,497	9,016,200	14.1	524.2
Sept. 1 1949	578	5,439,009	8,639,800	14.4	513.2
Sept. 1 1950	559	5,322,698	8,460,700	14.5	505.1
April 1 1951	560	5,363,699	8,520,800	14.6	510.0
Oct.1, 1952	550	5,284,400	8,446,400	14.6	508.3
1953	550	5,475,800	8,639,800	14.8	525.3
1954	525	5,376,500	8,446,200	15.0	521.7
1955	490	5,094,900	7,989,500	15.1	497.4
1956	477	5,040,700	7,892,700	15.2	493.4
1957	470	5,097,400	7,959,900	15.4	503.1
1958	474	5,316,100	8,309,200	15.5	529.5
1959	485	5,593,600	8,766,300	15.6	563.0
1960	478	5,664,000	8,894,600	15.7	575.0
1961	469	5,751,400	9,085,300	15.8	590.1
1962	456	5,726,900	9,045,300	15.9	589.8
1963	440	5,631,000	8,912,600	15.9	583.5
1964	422	5,553,400	8,816,300	16.0	579.3
1965	410	5,479,800	8,733,500	16.0	575.8
1966	387	5,343,700	8,549,900	16.1	566.3
1967	382	5,322,800	8,550,700	16.1	566.4
1968	380	5,337,300	8,655,700	16.1	574.6
1969	365	5,319,400	8,797,900	16.1	584.9
1970	350	5,305,800	8,911,000	16.2	593.4
1971	347	5,453,100	9,218,200	16.3	616.5
1972	328	5,411,300	9,253,300	16.4	621.0
1973	312	5,507,000	9,525,200	16.3	640.3
1974	306	5,798,068	10,236,221	16.4	790.0
1975	293	5,943,289	10,601,370	16.4	714.5
1976	290	6,357,974	11,565,138	16.4	779.3
1977	254	6,466,000	11,950,200	16.0	NA
1978	271	7,449,900	13,589,200	16.0	NA
1979	313	9,061,313	16,559,318	16.3	NA
1980	269	7,621,000	14,720,000	16.3	NA
1981	274	7,837,000	15,153,800	16.5	NA
1982	269	7,792,100	15,100,300	15.6	NA
1983	287	8,989,600	16,462,400	16.0	NA
1984	286	8,963,600	16,445,700	15.7	NA
1985	252	8,442,700	15,542,100	16.0	NA

See notes and sources at end of table

Section XII
Table 3a

United States Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)
(Ocean-going vessels of 2000 gross tons and over)

	Actual Fleet				
Year (a)	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1987	247	8,381,700	15,452,600	15.8	NA
1988	254	9,174,300	16,876,900	15.8	NA
1989	247	9,004,800	16,708,300	15.3	NA

(a) From 1953 to 1985, figures as of December 31; 1987 to 1989 figures as of January 1; other figures as of date indicated.

SOURCE: 1947-1973: Sun Company, Analysis of World Tank Ship Fleet.
1974-1976: Sun Shipbuilding and Dry Dock Company.
1977-1985: U.S. Department of Transportation, Maritime Administration (Report E2-17).
1987-1989: U.S. Department of Transportation, Maritime Administration, Tankers in the World Fleet

Section XII
Table 4

Age Distribution of the United States Tanker Fleet
(Ocean-going vessels of 1000 gross tons and over)

Year of Construction	Number	Gross Tons(a)	Deadweight Tons(a)	Average Speed (knots)	Average Draft (feet)
Before 1955	26	408.9	730.4	14.4	30.8
1955	2	85.1	190.8	12.5	37.0
1956	5	81.3	144.9	16.2	31.2
1957	12	203.3	346.2	16.3	33.6
1958	9	182.4	302.6	16.7	35.1
1959	8	157.0	259.5	16.8	35.5
1960	5	112.9	212.4	17.0	38.2
1961	4	116.7	196.4	16.5	39.8
1962	1	20.0	34.1	15.0	36.0
1963	4	88.3	150.7	16.3	35.8
1964	6	146.1	281.6	16.7	38.8
1965	2	48.6	94.4	16.5	35.5
1966	2	58.9	116.2	16.0	39.5
1967	0	0.0	0.0	0.0	0.0
1968	4	82.6	148.3	17.5	38.8
1969	8	189.8	383.4	16.5	38.4
1970	8	220.7	456.6	15.5	40.4
1971	6	178.7	358.1	16.0	41.2
1972	7	216.2	429.3	15.7	41.0
1973	5	277.6	596.5	16.0	51.4
1974	10	466.8	939.4	16.1	47.4
1975	13	408.0	803.2	15.8	40.4
1976	11	476.6	1,004.6	15.2	43.9
1977	17	1,018.5	1,886.4	16.0	46.2
1978	13	869.9	1,397.3	17.8	46.2
1979	13	1,221.3	2,201.6	17.3	53.2
1980	6	349.2	455.8	17.2	42.3
1981	13	379.8	655.4	15.0	35.6
1982	7	255.1	549.9	13.7	41.1
1983	7	268.7	560.7	15.1	44.6
1984	5	126.2	234.8	15.6	35.0
1985	4	61.1	95.6	14.8	30.5
1986	3	133.5	279.7	16.0	44.7
1987	1	95.0	211.5	16.0	65.0
Total	247	9,004.8	16,708.3	15.3	37.6

(a) Tonnage in thousands.

SOURCE: Department of Transportation, Maritime Administration, Tankers in the World Fleet as of January 1, 1989.

Section XII
Table 5

Tankers in the World Fleet by Major Flag of Registry(a)
(As of January 1, 1989)

Country of Registry	Total		General Tankers		Special Tankers		Chemical Tankers		LNG Tankers		LPG Tankers	
	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons	No.	Dead-Weight Tons
Argentina	50	1,032.6	44	994.8	0	0.0	2	10.2	0	0.0	4	27.6
Brazil	95	3,995.3	68	3,659.4	0	0.0	15	264.9	0	0.0	12	71.0
China	166	2,699.6	154	2,541.7	2	10.8	10	147.1	0	0.0	0	0.0
Cyprus	125	10,516.0	92	9,980.9	3	24.5	26	499.8	0	0.0	4	10.8
France	59	4,107.0	37	3,846.6	6	20.3	9	52.6	2	87.4	5	100.1
Germany	54	737.7	10	229.2	1	3.2	27	330.8	0	0.0	16	174.5
Greece	205	15,357.6	177	14,824.6	2	9.7	17	453.9	0	0.0	9	69.4
Italy	223	5,035.5	133	4,451.1	5	12.5	53	365.1	3	51.3	29	155.5
Japan	314	15,664.2	234	14,149.3	0	0.0	31	214.2	10	608.6	39	692.1
Korea	67	1,726.8	42	1,569.4	0	0.0	16	66.6	0	0.0	9	90.8
Liberia	602	57,064.8	435	52,343.5	1	29.5	119	3,227.3	4	202.2	43	1,262.3
Nassau Bahamas	133	10,415.1	95	9,793.2	0	0.0	32	457.7	1	88.2	5	76.0
Norway	207	13,761.2	90	10,757.8	1	2.5	64	1,654.6	0	0.0	52	1,346.3
Panama	628	22,973.8	283	19,751.0	6	48.1	247	2,609.7	0	0.0	92	565.0
Singapore	127	5,161.0	95	4,630.1	1	7.0	10	222.7	0	0.0	21	301.2
Spain	87	3,614.2	49	3,316.8	0	0.0	23	230.7	1	24.9	14	41.8
Sweden	59	509.9	26	188.7	0	0.0	32	250.4	1	70.8	0	0.0
Turkey	52	1,383.0	33	1,304.0	1	15.8	16	58.5	0	0.0	2	4.7
U.S.S.R	444	7,269.6	416	6,759.5	7	86.5	10	225.3	0	0.0	11	198.3
United Kingdom(b)	198	14,328.0	125	12,848.7	2	8.3	39	316.6	10	434.3	22	720.1
United States	247	16,708.3	209	14,872.0	12	487.0	8	200.8	13	936.4	5	212.1
All Others	1,108	40,734.5	771	35,259.4	25	141.2	214	3,544.9	11	710.8	87	1,078.2
Total	5,250	254,795.7	3,618	228,071.7	75	906.9	1,020	15,404.4	56	3,214.9	481	7,197.8

(a) Ocean-going vessels 1000 gross tons and over.
(b) Including British Colonies

SOURCE: Department of Transportation, Maritime Administration, Tankers in the World Fleet As of January 1,1989

Sources of Spills of Oil and other Substances
(Gallons)

1983

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships	276	145,778	14	64,729	20	4,250	310	214,757
Tank Barges	561	1,798,055	17	8,717	18	69,081	596	1,875,853
Dry Cargo Barges	13	1,273	0	-	3	97	16	1,370
Dry Cargo Ships	204	102,379	0	-	9	171	213	102,550
Combatants	245	26,265	1	30	6	353	252	26,648
Other	1,131	248,348	4	145	44	797	1,179	249,290
TOTAL	2,430	2,322,098	36	73,621	100	74,749	2,566	2,470,468
LAND VEHICLES								
Rail	29	28,284	2	1,015	2	500	33	29,799
Highway	319	155,021	19	17,457	32	18,200	370	190,678
Other	129	72,463	7	33,695	8	6,326	144	112,484
TOTAL	477	255,768	28	52,167	42	25,026	547	332,961
NON-TRANSPORT, ON/OFFSHORE								
Refinery	72	35,657	10	137,627	8	1,740	90	175,024
Bulk Storage	251	292,480	7	1,960	5	5,670	263	300,110
Onshore Production	134	606,393	0	-	6	169,265	140	775,658
Offshore Production	1,184	112,491	11	164	22	568	1,217	113,223
Other	242	47,477	51	521,687	48	5,538,276	341	6,107,440
TOTAL	1,883	1,094,498	79	661,438	89	5,715,519	2,051	7,471,455
PIPELINES	166	33,963	2	2	2	0	170	33,965
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	24	4,446	0		0	0	24	4,446
Bulk Transfer	156	78,024	7	1,672	6	116	169	79,812
Non-Bulk Transfer	3	401	0		0	0	3	401
Other	91	81,290	8	182	18	41,658	117	123,130
TOTAL	274	164,161	15	1,854	24	41,774	313	207,789
LAND FACILITIES	47	13,933	5	1,166	9	3,624	61	18,723
MISC/UNKNOWN	4,234	4,483,552	124	1,008,793	606	10,370,959	4,964	15,863,304
GRAND TOTAL	9,511	8,367,973	289	1,799,041	872	16,231,651	10,672	26,398,665

See notes and sources at end of table

Sources of Spills of Oil and other Substances
(Gallons)

1984

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships	244	1,906,668	9	2,837	19	20,126	272	1,929,631
Tank Barges	529	2,488,441	16	52,902	19	22,005	564	2,563,348
Dry Cargo Barges	11	2,900	0	0	0	0	11	2,900
Dry Cargo Ships	170	1,479,833	0	0	16	73	186	1,479,906
Combatants	237	170,319	2	2	8	70	247	170,391
Other	1,234	220,187	4	74	587	830	1,825	221,091
TOTAL	2,425	6,268,348	31	55,815	649	43,104	3,105	6,367,267
LAND VEHICLES								
Rail	90	82,111	28	51,692	47	5,865	165	139,668
Highway	393	269,830	28	30,622	52	33,601	473	334,053
Other	152	24,686	2	1,001	16	1,019	170	26,706
TOTAL	635	376,627	58	83,315	115	40,485	808	500.427
NON-TRANSPORT, ON/OFFSHORE								
Refinery	114	149,304	7	5,037	12	10,705	133	165,046
Bulk Storage	298	1,463,144	12	74,978	19	35,695	329	1,573,817
Onshore Production	99	24,178	2	128	5	1,198	106	25,504
Offshore Production	1,170	56,555	6	99	19	1,097	1,195	57,751
Other	717	228,506	146	313,891	154	457,726	1,017	1,000,123
TOTAL	2,398	1,921,687	173	394,133	209	506,421	2,780	2,822,241
PIPELINES	54	2,613	1	2	3	42	58	2,657
MARINE FAC. ON/OFFSHORE								
Fuel Transfer	27	14,193	0	0	0	0	27	14,193
Bulk Transfer	150	74,754	10	14,222	9	12,043	169	101,019
Non-Bulk Transfer	3	26	0	0	0	0	3	26
Other	0	0	0	0	0	0	0	0
TOTAL	180	88,973	10	14,222	9	12,043	199	115,238
LAND FACILITIES	73	31,062	8	4,450	23	34,863	104	70,375
MISC/UNKNOWN	3,480	7,565,613	35	121,694	998	113,055	4,513	7,800,362
GRAND TOTAL	9,245	16,254,923	316	673,631	2,006	750,013	11,567	17,678,567

See notes and sources at end of table

Sources of Spills of Oil and other Substances (Gallons)

1985

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships....................	173	10,732,387	5	131	12	1,247	190	10,733,765
Tank Barges..................	417	3,688,584	19	2,986	16	4,220	452	3,695,790
Dry Cargo Barges.............	12	1,779	1	0	2	1	15	1,780
Dry Cargo Ships..............	145	177,067	4	173	16	7,033	165	184,273
Combatants....................	135	13,770	0	0	6	2	141	13,772
Other.........................	1,187	514,215	3	42	842	10,021	2,032	524,278
TOTAL......................	2,069	15,127,802	32	3,332	894	22,524	2,995	15,153,658
LAND VEHICLES								
Rail..........................	69	69,948	26	6,949	42	711	137	77,608
Highway......................	307	137,731	36	4,226	70	27,815	413	169,772
Other.........................	108	20,777	2	17	19	5,882	129	26,676
TOTAL......................	484	228,456	64	11,192	131	34,408	679	274,056
NON-TRANSPORT, ON/OFFSHORE								
Refinery......................	88	1,325,077	8	760	19	25,141	115	1,350,978
Bulk Storage..................	206	380,139	16	23,231	17	12,378	239	415,748
Onshore Production..........	150	127,569	12	1,155,276	27	85,394	189	1,368,239
Offshore Production..........	831	26,922	4	530	40	599	875	28,051
Other.........................	555	234,901	156	127,002	123	2,581,336	834	2,943,239
TOTAL......................	1,830	2,094,608	196	1,306,799	226	2,704,848	2,252	6,106,255
PIPELINES......................	65	43,047	0	0	4	203	69	43,250
MARINE FAC. ON/OFFSHORE								
Fuel Transfer................	20	10,432	0	0	0	0	20	10,432
Bulk Transfer................	91	26,360	18	18,794	8	7,668	117	52,822
Non-Bulk Transfer............	1	0	0	0	0	0	1	0
Other.........................	82	19,757	8	82	10	203	100	20,042
TOTAL......................	194	56,549	26	18,876	18	7,871	238	83,296
LAND FACILITIES..............	130	88,946	30	10,457	29	7,511	189	106,914
MISC/UNKNOWN................	2,250	1,035,732	62	41,818	920	188,321	3,232	1,265,871
GRAND TOTAL...............	6,993	18,666,794	410	1,392,474	2,219	2,965,386	9,622	23,024,654

See notes and sources at end of table

Sources of Spills of Oil and other Substances (Gallons)

1986

Source	No.	Oil Volume	No.	Hazardous Volume	No.	Other Volume	No.	Total Volume
VESSELS								
Tank Ships....................	203	1,163,809	18	5,618	27	1,470	248	1,170,897
Tank Barges...................	577	1,884,500	37	212,712	25	8,734	639	2,105,946
Dry Cargo Barges.............	13	556	1	0	3	8	17	564
Dry Cargo Ships..............	170	35,563	5	615	32	12,349	207	48,527
Combatants...................	95	28,031	0	0	6	2,086	101	30,117
Other........................	1,761	285,526	12	1,650	419	8,322	2,192	295,498
TOTAL.....................	2,819	3,397,985	73	220,595	512	32,969	3,404	3,651,549
LAND VEHICLES								
Rail.........................	14	1,285	12	0	4	1	30	1,286
Highway......................	218	35,772	28	3,552	24	4,098	270	43,422
Other........................	27	297	0	0	3	0	30	297
TOTAL.....................	259	37,354	40	3,552	31	4,099	330	45,005
NON-TRANSPORT, ON/OFFSHORE								
Refinery.....................	37	272,847	2	200	8	266	47	273,313
Bulk Storage.................	76	352,539	8	1,400	15	3,782	99	357,721
Onshore Production..........	83	8,084	28	6,858	56	402,498	167	417,440
Offshore Production..........	260	11,735	0	0	6	16	266	11,751
Other........................	141	9,542	35	16,485	32	102,297	208	128,324
TOTAL.....................	597	654,747	73	24,943	117	508,859	787	1,188,549
PIPELINES......................	41	173,599	2	5	2	1	45	173,605
MARINE FAC. ON/OFFSHORE								
Fuel Transfer................	2	2	0	0	0	0	2	2
Bulk Transfer................	11	1,789	0	0	2	90	13	1,879
Non-Bulk Transfer............	0	0	0	0	0	0	0	0
Other........................	305	80,497	18	25,258	19	16,052	342	121,807
TOTAL.....................	318	82,288	18	25,258	21	16,142	357	123,688
LAND FACILITIES..............	256	23,779	41	66,020	52	5,722	349	95,521
MISC/UNKNOWN................	1,538	297,449	128	113,705	622	292,335	2,288	703,489
GRAND TOTAL..............	5,762	4,440,452	371	453,900	1,351	859,973	7,484	5,754,325

SOURCE: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1983, 1984, 1985, 1986.

Section XII
Table 7

Total and Average Consumption of Motor Fuel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1947	30,872	20,086	651	6,650	7,243	1,089	176	778	4,420
1948	33,394	21,369	640	7,379	8,189	1,110	184	780	4,239
1949	36,429	22,873	628	7,840	8,666	1,105	190	772	4,063
1950	40,311	24,305	603	8,403	10,566	1,257	195	732	3,752
1951	42,835	26,159	611	8,790	11,171	1,220	198	751	3,797
1952	43,741	27,969	639	9,055	11,849	1,303	206	766	3,723
1953	46,460	29,613	637	9,576	12,245	1,279	244	771	3,156
1954	48,413	30,915	639	9,726	12,541	1,289	233	755	3,240
1955	52,092	33,548	644	10,413	13,308	1,278	255	771	3,021
1956	54,249	35,326	651	10,737	13,978	1,302	255	802	3,145
1957	56,375	36,769	652	10,961	14,271	1,302	264	825	3,125
1958	57,392	38,095	664	11,159	14,514	1,301	270	809	2,996
1959 (c)	60,132	40,056	666	11,671	15,453	1,324	265	823	3,106
1960	62,258	41,169	661	11,945	15,882	1,330	272	827	3,040
1961	63,870	42,033	658	12,291	16,443	1,338	281	830	2,957
1962	66,638	43,771	657	12,809	17,089	1,334	288	837	2,906
1963	69,842	45,246	648	13,360	18,432	1,380	298	838	2,813
1964	72,969	47,567	652	14,013	19,470	1,389	305	864	2,829
1965	76,634	49,723	649	14,795	20,506	1,386	314	875	2,784
1966	79,878	54,987	688	15,503	18,842	1,215	322	835	2,593
1967	82,352	57,546	699	16,169	19,325	1,195	338	860	2,545
1968	85,694	61,176	714	16,942	20,867	1,232	352	907	2,578
1969	89,174	64,850	727	17,874	22,395	1,253	364	889	2,442
1970	92,068	67,879	737	18,797	23,629	1,257	378	820	2,172
1971	96,062	71,423	744	19,871	25,292	1,273	397	844	2,125
1972	100,842	76,308	757	21,308	27,830	1,306	407	924	2,270
1973	106,356	78,772	741	23,244	30,713	1,321	425	988	2,326
1974	109,823	75,191	685	24,630	30,144	1,224	447	965	2,159
1975	111,670	76,560	686	25,781	31,371	1,217	462	1,053	2,279
1976	115,122	79,813	693	27,876	34,840	1,250	478	1,046	2,188
1977	117,221	80,524	687	29,314	38,127	1,301	491	974	1,984
1978	121,441	81,804	674	31,336	42,274	1,349	505	989	1,957
1979	123,851	77,476	626	32,914	43,642	1,326	527	996	1,891
1980	127,295	72,087	566	33,667	41,854	1,243	529	1,018	1,926
1981	129,030	71,168	552	34,644	42,231	1,219	544	1,054	1,938
1982	129,456	70,260	543	35,382	42,142	1,191	559	982	1,756
1983	132,029	70,082	531	36,723	45,121	1,229	583	878	1,507
1984	133,638	68,893	516	37,507	49,050	1,308	584	793	1,359
1985	137,128	69,450	506	39,196	51,037	1,302	593	835	1,407
1986	140,693	71,404	508	40,069	52,911	1,320	594	869	1,463
1987	142,125	70,763	498	41,144	55,850	1,357	602	903	1,500

See notes and sources at end of table

Total and Average Consumption of Motor Fuel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1988	145,836	72,149	495	42,529	57,186	1,345	616	921	1,496
1989	147,460	72,956	495	43,610	57,912	1,328	625	949	1,518
1990	147,809	72,626	491	44,479	58,056	1,305	627	901	1,436

(a) Travel by motorcycles included with passenger cars.

(b) Includes commercial, school and non-revenue buses.

(c) Includes Alaska and Hawaii beginning in 1959.

SOURCE: 1947-1985: Federal Highway Administration, Highway Statistics Summary to 1985
1986-1990: Federal Highway Administration, Highway Statistics, Annual

Total and Average Travel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	300,440	9,732	14.95	66,203	9,955	9.14	4,251	24,153	5.46
1948	319,665	9,573	14.96	74,009	10,030	9.04	4,283	23,277	5.49
1949	342,478	9,401	14.97	77,731	9,915	8.97	4,252	22,326	5.51
1950	363,613	9,020	14.95	90,552	10,776	8.57	4,081	20,910	5.57
1951	392,131	9,154	14.99	94,844	10,790	8.49	4,118	20,820	5.48
1952	410,187	9,378	14.67	99,060	10,940	8.36	4,334	21,062	5.66
1953	435,351	9,370	14.70	104,633	10,927	8.54	4,449	18,234	5.77
1954	450,605	9,308	14.58	105,844	10,883	8.44	4,408	18,918	5.84
1955	487,540	9,359	14.53	111,387	10,697	8.37	4,507	17,658	5.85
1956	507,138	9,348	14.36	116,100	10,813	8.31	4,605	18,059	5.74
1957	529,332	9,391	14.40	113,190	10,328	7.93	4,393	16,640	5.32
1958	544,873	9,494	14.30	115,470	10,348	7.96	4,310	15,963	5.33
1959 (c)	572,976	9,529	14.30	123,154	10,552	7.97	4,348	16,408	5.28
1960	588,083	9,446	14.28	126,409	10,583	7.96	4,353	16,004	5.26
1961	604,557	9,465	14.38	128,582	10,461	7.82	4,396	15,661	5.30
1962	629,097	9,441	14.37	133,289	10,406	7.80	4,466	15,507	5.34
1963	645,371	9,240	14.26	155,569	11,644	8.44	4,483	15,049	5.35
1964	677,613	9,286	14.25	164,271	11,723	8.43	4,616	15,115	5.34
1965	709,300	9,255	14.27	173,656	11,737	8.47	4,684	14,903	5.35
1966	777,480	9,733	14.14	143,891	9,281	7.64	4,528	14,055	5.42
1967	811,046	9,849	14.09	148,332	9,174	7.68	4,627	13,693	5.38
1968	850,288	9,922	13.90	160,656	9,483	7.70	4,925	14,001	5.43
1969	884,705	9,921	13.64	172,266	9,638	7.69	4,820	13,234	5.42
1970	919,679	9,989	13.55	185,501	9,869	7.85	4,544	12,035	5.54
1971	969,947	10,097	13.58	204,072	10,270	8.07	4,792	12,068	5.68
1972	1,025,696	10,171	13.44	228,742	10,735	8.22	5,348	13,144	5.79
1973	1,051,175	9,884	13.34	256,143	11,020	8.34	5,792	13,631	5.86
1974	1,012,696	9,221	13.47	262,164	10,644	8.70	5,684	12,715	5.89
1975	1,039,579	9,309	13.58	282,030	10,940	8.99	6,055	13,102	5.75
1976	1,084,218	9,418	13.58	311,904	11,189	8.95	6,258	13,083	5.98
1977	1,115,592	9,517	13.85	345,612	11,790	9.06	5,823	11,865	5.98
1978	1,153,666	9,500	14.10	385,153	12,291	9.11	5,885	11,645	5.95
1979	1,122,277	9,062	14.49	400,909	12,181	9.19	5,947	11,290	5.97
1980	1,121,810	8,813	15.56	399,426	11,864	9.54	6,059	11,458	5.95
1981	1,141,517	8,847	16.04	405,045	11,692	9.59	6,241	11,475	5.92
1982	1,176,166	9,085	16.74	413,021	11,673	9.80	5,823	10,413	5.93
1983	1,206,792	9,140	17.22	440,806	12,004	9.77	5,199	8,919	5.92
1984	1,233,703	9,232	17.91	481,926	12,849	9.83	4,640	7,950	5.85
1985	1,269,651	9,259	18.28	499,652	12,747	9.79	4,876	8,216	5.84
1986	1,310,611	9,315	18.35	519,188	12,957	9.81	5,073	8,544	5.84
1987	1,364,836	9,603	19.29	551,050	13,393	9.87	5,318	8,833	5.89
1988	1,439,603	9,871	19.95	580,893	13,659	10.16	5,466	8,878	5.93

See notes and sources at end of table

Section XII
Table 8a

Total and Average Travel by United States Motor Vehicles

	Passenger Cars(a)			Motor Trucks			Buses(b)		
Year	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1989	1,488,140	10,092	20.40	602,657	13,819	10.41	5,659	9,054	5.96
1990	1,524,942	10,317	21.00	616,831	13,868	10.62	5,728	9,136	6.36

(a) Travel by motorcycles included with passenger cars.
(b) Includes commercial, school and non-revenue buses.
(c) Includes Alaska and Hawaii beginning in 1959.

SOURCE: 1947-1985: Federal Highway Administration, Highway Statistics Summary to 1985.
1986-1990: Federal Highway Administration, Highway Statistics, Annual

Section XII
Table 9

Market Shares and Total Model Year Sales of New Domestic and Import Automobiles

Year	Minicompact	Subcompact	Compact	Midsize	Large	Two Seater	Total Sales
1976	NA	27.1%	29.3%	18.7%	22.8%	2.1%	9,686,855
1977	8.1	19.1	26.9	19.2	24.6	2.1	10,565,797
1978	8.5	19.0	15.2	33.0	22.3	1.9	11,090,649
1979	5.5	30.7	8.4	33.8	19.4	2.1	10,788,257
1980	4.7	37.8	6.6	33.8	14.7	2.4	9,094,506
1981	3.3	33.0	13.4	35.1	12.5	2.7	8,879,864
1982	2.9	31.4	17.0	33.1	13.0	2.6	7,658,171
1983	2.6	26.8	22.0	31.7	14.5	2.3	8,770,413
1984	0.4	24.6	27.1	30.0	14.7	3.2	10,211,065
1985	0.5	20.5	33.4	28.4	13.8	3.4	10,968,515
1986	1.7	21.2	34.5	26.9	13.2	2.5	11,099,046
1987	1.4	18.2	40.3	24.3	13.4	2.4	10,434,137
1988	0.8	19.1	40.5	24.6	13.2	1.8	10,372,985
1989	0.2	19.3	36.3	28.9	13.8	1.6	10,173,827
1990	0.8	22.0	34.2	27.2	13.9	1.8	9,224,465

NA = Not Available

SOURCE: 1976-1989: Oak Ridge National Laboratory, Light-Duty Vehicle MPG and Market Shares Report: Model Year 1989
1990: Oak Ridge National Laboratory, Highway Vehicle MPG and Market Shares Report: Model Year 1990.

Section XII
Table 10

Mileage and Deliveries for United States Liquid Pipelines

	Miles of Pipelines				Deliveries (mb)		
		Trunk					
Year	Gathering	Crude	Products	Total	Crude	Products	Total
1979	36,927	58,606	74,261	169,794	6,728,193	4,412,059	11,140,252
1980	35,279	59,560	74,510	169,349	6,404,640	4,194,940	10,599,580
1981	38,558	57,904	76,353	172,815	6,069,575	4,152,962	10,222,537
1982	35,580	59,567	77,402	172,549	5,967,624	4,213,086	10,180,710
1983	30,966	57,466	79,387	167,819	6,020,301	4,289,301	10,309,602
1984	36,072	56,975	80,875	173,922	5,671,448	4,552,237	10,223,685
1985	35,021	55,844	80,536	171,401	6,238,731	4,505,992	10,744,723
1986	34,209	54,153	81,652	170,014	6,366,433	4,715,889	11,082,322
1987	35,055	54,886	77,924	167,865	6,277,670	4,916,665	11,194,335
1988	34,311	55,900	80,246	170,457	6,509,367	4,974,279	11,483,646
1989	33,349	55,664	79,624	168,637	6,434,559	4,846,481	11,281,040
1990	32,349	55,504	80,511	168,364	6,562,462	4,815,951	11,378,413

SOURCE: The Oil and Gas Journal, Pipeline Economics issue.

Mileage and Compressor Stations for United States Natural Gas Pipelines

Year	Miles of Pipeline				Total Compressor Stations		
	Transmission	Field	Storage	Total	Transmission	Other	Total
1980	189,648	68,641	7,252	265,541	1,127	866	1,993
1981	196,942	72,812	4,610	274,364	1,097	860	1,957
1982	204,896	76,073	6,030	286,999	1,116	995	2,111
1983	203,403	75,095	6,706	285,204	1,367	1,342	2,709
1984	187,465	66,172	4,742	258,379	1,152	898	2,050
1985	197,727	77,145	4,523	279,395	1,629	726	2,355
1986	201,662	72,934	5,274	279,870	1,537	911	2,448
1987	198,578	72,981	8,526	280,085	1,331	897	2,228
1988	204,192	72,393	4,796	281,381	1,336	938	2,274
1989	205,606	63,201	4,594	273,401	1,458	783	2,241
1990	208,358	62,148	4,436	274,942	1,513	766	2,279

SOURCE: *The Oil and Gas Journal, Pipeline Economics issue.*

BASIC PETROLEUM DATA BOOK

SECTION XIII. NATURAL GAS

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Section XIII
Table 1

Estimated Proved World Reserves of Natural Gas
Annually as of January 1
(Trillions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Europe	Sub Total	Communist Nations	USSR/ E. Europe(b)	Total World
1967	289.3	45.0	64.6	398.9	215.1	158.2	32.5	87.7	892.4	150.9	NA	1,043.3
1968	292.9	48.0	67.1	408.0	220.2	167.2	40.1	131.0	966.5	219.0	NA	1,185.5
1969	287.3	46.5	62.9	396.7	223.6	168.3	52.7	138.4	979.7	346.0	NA	1,325.7
1970	275.1	50.7	163.2	489.0	235.1	198.1	67.5	147.5	1,137.8	353.5	NA	1,491.3
1971	290.7 (a)	60.5	73.1	424.3	354.1	191.5	56.3	146.7	1,172.9	441.2	NA	1,614.1
1972	278.8 (a)	54.4	72.7	405.9	343.8	193.0	69.8	161.6	1,174.1	559.8	NA	1,733.9
1973	266.1 (a)	55.0	79.2	400.3	344.0	189.0	101.2	176.6	1,211.1	666.4	NA	1,877.5
1974	250.0 (a)	50.3	91.3	391.6	413.1	187.7	114.2	192.2	1,298.8	737.2	NA	2,036.0
1975	237.1 (a)	52.5	100.2	389.8	672.4	315.0	115.9	201.1	1,694.2	848.0	NA	2,542.2
1976	228.2 (a)	53.4	90.5	372.1	538.1	207.2	111.6	179.9	1,408.9	836.5	NA	2,245.4
1977	216.0 (a)	56.0	90.3	362.3	535.9	209.1	120.0	140.9	1,368.2	954.5	NA	2,322.7
1978	208.9 (a)	58.0	108.5	375.4	719.1	207.5	122.7	137.3	1,562.0	956.4	NA	2,518.4
1979	200.3 (a)	59.0	113.0	372.3	730.2	186.3	119.9	142.4	1,551.1	946.3	NA	2,497.4
1980	194.9 (a)	85.5	144.5	424.9	739.8	210.4	128.8	134.9	1,638.8	936.0	NA	2,574.8
1981	199.0 (a)	87.3	149.0	435.3	751.9	208.5	126.3	158.3	1,680.3	955.4	NA	2,635.7
1982	201.7 (a)	89.9	176.3	467.9	761.9	211.7	127.6	151.2	1,720.3	1,194.7	NA	2,915.0
1983	201.5 (a)	97.0	186.6	485.1	769.2	189.4	146.2	157.3	1,747.2	1,283.8	NA	3,031.0
1984	200.2 (a)	90.5	186.4	477.1	774.0	189.6	156.2	158.3	1,755.2	1,446.8	NA	3,202.0
1985	197.5 (a)	92.3	184.9	474.7	869.4	187.2	166.2	206.7	1,904.2	1,497.4	NA	3,401.6
1986	193.4 (a)	99.7	189.3	482.4	855.9	198.3	171.5	226.4	1,934.5	1,546.0	NA	3,480.5
1987	191.6 (a)	99.6	190.1	481.3	925.3	201.4	198.6	229.7	2,036.3	1,595.8	NA	3,632.1
1988	187.2 (a)	98.0	226.7	511.9	1,084.0	248.6	224.8	218.2	2,287.5	1,510.0	NA	3,797.5
1989	168.0	95.1	236.1	499.2	1,182.1	253.3	240.7	200.1	2,375.4	1,560.7	NA	3,936.1
1990	167.1	94.3	233.7	495.1	1,226.2	266.7	248.0	191.9	2,427.9	1,563.3	NA	3,991.2
1991	169.3	97.6	242.3	506.1	1,324.3	285.1	298.6	175.3	2,589.4	NA	1,619.0	4,208.3
1992	169.3	96.7	238.5	504.5	1,319.1	310.2	299.3	178.5	2,611.6	NA	1,766.4	4,378.1

(a) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available.
(b) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations is being discontinued. Beginning in 1991, all countries will be grouped by geographic region, rather than political ideology.

SOURCE 1967-1980 United States: American Gas Association, Committee on Natural Gas Reserves
1981-1991 United States: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Annual Report
1967-1991 Rest of the World: The Oil & Gas Journal, "Worldwide Report" issues
1992 All nations, Oil and Gas Journal, "Worldwide Production Report" issue.

Section XIII
Table 2

The Supply of United States Natural Gas
(Millions of cubic feet - 14.72 psia at 60 F.)

Year	Proved Reserves at Start of Year (c)	Reserve Revisions, Extensions and Discoveries During Year	Net Change In Underground Storage(d)	Production During Year(a)	Proved Reserves at Year-end(c)
1947	160,575,901	10,980,824	NA	5,629,811	165,926,914
1948	165,926,914	13,898,572	51,482	6,007,628	173,869,340
1949	173,869,340	12,674,299	82,746	6,245,041	180,381,344 (e)
1950	179,401,693 (e)	11,984,290	54,006	6,855,244	184,584,745
1951	184,584,745	15,965,808	132,030	7,923,673	192,758,910
1952	192,758,910	14,267,606	197,766	8,592,716	198,631,566
1953	198,631,566	20,341,933	513,629 (b)	9,188,365	210,298,763
1954	210,298,763	9,547,074	90,408	9,375,314	210,560,931
1955	210,560,931	21,897,616	87,164	10,063,167	222,482,544
1956	222,482,544	24,716,115	133,241	10,848,685	236,483,215
1957	236,483,215	20,008,051	178,761	11,439,890	245,230,137
1958	245,230,137	18,896,724	57,582	11,422,651	252,761,792
1959	252,761,792	20,621,249	160,453	12,373,036	261,170,431
1960	261,170,431	13,893,978	281,272	13,019,356	262,326,326
1961	262,326,326	17,166,421	159,544	13,378,649	266,273,642
1962	266,273,642	19,483,958	159,231	13,637,973	272,278,858
1963	272,278,858 (f)	18,164,667	253,733	14,546,025	276,151,233
1964	276,151,233	20,252,139	195,110	15,347,028	281,251,454
1965	281,251,454	21,319,279	150,483	16,252,293	286,468,923
1966	286,468,923	20,220,432	134,523	17,491,073	289,332,805
1967	289,332,805	21,804,333	151,403	18,380.838	292,907,703
1968	292,907,703	13,697,008	118,569	19,373,428	287,349,852
1969	287,349,852	8,375,004	107,169	20,723,190	275,108,835
1970	275,108,835	37,196,359 (c)	402,018	21,960,804	290,746,408
1971	290,746,408	9,825,421	310,301	22,076,512	278,805,618
1972	278,805,618	9,634,563	156,563	22,511,898	266,084,846
1973	266,084,846	6,825,049	(354,282)	22,605,406	249,950,207
1974	249,950,207	8,679,184	(178,424)	21,318,470	237,132,497
1975	237,132,497	10,483,688	302,561	19,718,570	228,200,176
1976	228,200,176	7,555,468	(187,550)	19,542,020	216,026,074
1977	216,026,074	11,851,924	446,930	19,447,050	208,877,878
1978	208,877,878	10,586,144	148,733	19,311,048	200,301,707
1979	200,301,707	14,285,947	239,323	19,910,353	194,916,624
1980 (g)	200,997,000	16,723,000	NA	18,699,000	199,021,000
1981	199,021,000	21,446,000	NA	18,737,000	201,730,000
1982	201,730,000	17,288,000	NA	17,506,000	201,512,000
1983	201,512,000	14,523,000	NA	15,788,000	200,247,000
1984	200,247,000	14,409,000	NA	17,193,000	197,463,000
1985	197,463,000	11,891,000	NA	15,985,000	193,369,000
1986	193,369,000	13,827,000	NA	15,610,000	191,586,000
1987	191,586,000	11,739,000	NA	16,114.000	187,211,000

See notes and sources at end of table

Section XIII
Table 2a

The Supply of United States Natural Gas
(Millions of cubic feet - 14.72 psia at 60 F.)

Year	Proved Reserves at Start of Year (c)	Reserve Revisions, Extensions and Discoveries During Year	Net Change In Underground Storage(d)	Production During Year(a)	Proved Reserves at Year-end(c)
1988 (h)	187,211,000	(2,517,000)	NA	16,670,000	168,024,000
1989	168,024,000	16,075,000	NA	16,983,000	167,116,000
1990	167,116,000	19,463,000	NA	17,233,000	169,346,000

NA = Not Available

(a) Estimated.

(b) All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.

(c) Figures from 1971 to 1987 include 26 trillion cubic feet in Prudhoe Bay, Alaska, (discovered in 1968).

(d) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis).

(e) Natural gas reserves have been revised back to 1950. Because of this, proved reserves at year-end 1949 and proved reserves at start of year 1950 are not the same.

(f) Excludes gas loss due to natural gas liquids recovery.

(g) Beginning in 1980, the data used are from the Department of Energy. Because of different methodology, the reserves at start of year (from DOE) differ from reserves at year-end 1979 (from AGA).

(h) An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during that last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

SOURCE: 1947-1979: American Gas Association, Committee on Natural Gas Reserves, Gas Facts.
1980-1990: U.S. Energy Information Administration, US Crude and Natural Gas and NGL Reserves.

The Reserves of United States Natural Gas Liquids
(Thousands of Barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1947	3,163,219	251,538	160,782	3,253,975	20.2
1948	3,253,975	470,557	183,749	3,540,783	19.3
1949	3,540,783	386,776	198,547	3,729,012	18.8
1950	3,729,012	766,062	227,411	4,267,663	18.8
1951	4,267,663	723,991	267,052	4,724,602	17.7
1952	4,724,602	556,838	284,789	4,996,651	17.5
1953	4,996,651	743,969	302,698	5,437,922	18.0
1954	5,437,922	107,350	300,815	5,244,457	17.4
1955	5,244,457	514,508	320,400	5,438,565	17.0
1956	5,438,565	809,820	346,053	5,902,332	17.1
1957	5,902,332	137,392	352,364	5,687,360	16.1
1958	5,687,360	858,206	341,548	6,204,018	18.2
1959	6,204,018	703,444	385,154	6,522,308	16.9
1960	6,522,308	725,130	431,379	6,816,059	15.8
1961	6,816,059	694,686	461,649	7,049,096	15.3
1962	7,049,096	732,549	470,128	7,311,517	15.6
1963	7,311,517	878,120	515,659	7,673,978	14.9
1964	7,673,978	608,744	536,090	7,746,632	14.4
1965	7,746,632	832,312	555,410	8,023,534	14.4
1966	8,023,534	894,116	588,684	8,328,966	14.1
1967	8,328,966	929,758	644,493	8,614,231	13.4
1968	8,614,231	685,659	701,782	8,598,108	12.2
1969	8,598,108	281,028	735,962	8,143,174	11.1
1970	8,143,174	307,579	747,812	7,702,941	10.3
1971	7,702,941	347,720	746,434	7,304,227	9.8
1972	7,304,227	238,273	755,941	6,786,559	9.0
1973	6,786,559	408,979	740,831	6,454,707	8.7
1974	6,454,707	619,841	724,039	6,350,449	8.8
1975	6,350,449	618,504	701,123	6,267,830	8.9
1976	6,267,830	834,766	700,629	6,401,967	9.1
1977	6,401,967	291,171	698,773	5,994,365	8.6
1978	5,994,365	595,666	664,179	5,925,852	8.9
1979 (a)	6,772,000	570,000	727,000	6,615,000	9.1
1980	6,615,000	844,000	731,000	6,728,000	9.1
1981	6,728,000	1,081,000	741,000	7,068,000	9.3
1982	7,068,000	874,000	721,000	7,221,000	9.9
1983	7,221,000	1,405,000	725,000	7,901,000	10.9
1984	7,901,000	518,000	776,000	7,643,000	9.8
1985	7,643,000	1,054,000	753,000	7,944,000	10.5
1986	7,944,000	959,000	738,000	8,165,000	11.1
1987	8,165,000	729,000	747,000	8,147,000	10.9
1988	8,147,000	845,000	754,000	8,238,000	10.9
1989	8,238,000	262,000	731,000	7,769,000	10.6

See notes and sources at end of table

The Reserves of United States Natural Gas Liquids
(Thousands of Barrels)

Year	Proved Reserves at Start of Year	Reserve Revisions Extensions & Discoveries	Production	Proved Reserves at Year-end	Indicated Years Supply at Year-end
1990	7,769,000	549,000	732,000	7,586,000	10.6

(a) Figures beginning with 1979 are from the Department of Energy data, using a different methodology from prior data. Therefore, year-end 1978 and start of year 1979 data are not the same.

SOURCE: 1947-1978: American Gas Association.
1979-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual.

World Marketed Production of Natural Gas by Area
(Billions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	Communist Nations	USSR/ E.Europe(a)	Total World
1950	6,282.1	71.7	260.0	6,613.8	0.0	0.0	55.4	33.2	6,702.4	NA	NA	6,702.4
1951	7,457.4	84.0	201.4	7,742.7	0.0	0.0	72.7	52.0	7,867.4	255.3	NA	8,122.7
1952	8,013.5	93.7	223.5	8,330.7	0.0	0.0	85.2	61.9	8,477.8	305.4	NA	8,783.2
1953	8,396.9	106.7	255.0	8,758.7	0.0	0.1	99.6	100.4	8,958.8	503.6	NA	9,462.4
1954	8,742.5	127.6	273.1	9,143.3	0.0	0.3	106.3	131.3	9,381.1	538.3	NA	9,919.4
1955	9,405.4	150.8	356.2	9,912.3	0.0	0.5	82.3	189.8	10,184.9	524.9	NA	10,709.8
1956	10,081.9	169.2	368.2	10,619.2	15.6	0.5	101.8	227.5	10,964.6	656.9	NA	11,621.5
1957	10,680.3	220.0	458.6	11,358.9	25.6	0.4	114.2	251.8	11,750.9	926.2	NA	12,677.0
1958	11,030.3	337.8	616.1	11,984.2	26.3	4.4	119.7	267.5	12,402.1	1,379.7	NA	13,781.7
1959	12,046.1	417.3	714.0	13,177.4	44.5	14.4	133.3	346.9	13,716.6	1,688.0	NA	15,404.6
1960	12,771.0	523.0	775.9	14,069.9	57.3	5.8	157.8	433.8	14,724.7	2,191.9	NA	16,916.6
1961	13,254.0	655.7	864.1	14,773.8	172.1	20.4	170.7	502.2	15,639.2	2,748.4	NA	18,387.6
1962	13,876.6	946.7	956.4	15,779.8	173.3	31.3	193.7	548.4	16,726.4	3,366.0	NA	20,092.4
1963	14,666.6	1,111.5	702.5	16,480.5	149.2	16.0	135.2	560.0	17,340.8	3,678.2	NA	21,018.9
1964	15,462.1	1,327.7	721.6	17,511.4	162.6	33.2	155.3	608.9	18,471.4	4,397.1	NA	22,868.5
1965	16,039.8	1,442.4	779.9	18,262.2	171.2	67.9	168.3	671.1	19,340.6	5,139.6	NA	24,480.2
1966	17,206.6	1,341.8	870.8	19,419.2	193.1	80.1	184.9	796.7	20,674.0	5,771.8	NA	26,445.9
1967	18,171.3	1,471.7	883.5	20,526.5	229.3	85.0	215.3	1,018.6	22,074.8	6,323.0	NA	28,397.8
1968	19,322.4	1,692.3	1,061.6	22,076.3	388.2	96.5	330.3	1,439.1	24,330.3	7,072.9	NA	31,403.1
1969	20,698.2	1,977.8	1,143.3	23,819.4	441.7	113.8	431.1	2,009.7	26,815.7	7,569.4	NA	34,385.1
1970	21,920.6	2,277.1	1,276.6	25,474.4	454.1	122.2	525.3	2,789.0	29,365.0	8,728.9	NA	38,094.0
1971	22,493.0	2,499.0	1,362.6	26,354.7	698.0	522.6	559.8	3,580.7	31,715.8	9,472.6	NA	41,188.4
1972	22,531.7	2,913.5	1,456.6	26,901.8	905.6	471.8	606.0	4,501.1	33,386.4	10,127.5	NA	43,513.9
1973	22,647.5	3,119.5	1,615.8	27,382.8	1,276.9	585.8	775.9	5,148.0	35,169.4	10,958.4	NA	46,127.8
1974	21,600.5	3,045.5	1,659.1	26,305.1	1,423.4	607.7	880.9	5,837.0	35,054.2	12,117.3	NA	47,171.5
1975	20,108.7	3,075.7	1,735.1	24,919.4	1,436.2	670.4	938.4	5,966.7	33,931.1	13,276.3	NA	47,207.3
1976	19,952.4	3,067.4	1,722.1	24,741.9	1,492.8	905.8	1,173.9	6,343.6	34,657.9	14,801.3	NA	49,459.2
1977	20,025.5	3,230.7	1,865.7	25,121.9	1,507.0	919.5	1,329.0	6,502.5	35,379.8	14,720.3	NA	50,100.1
1978	19,974.0	3,128.1	2,012.9	25,115.0	1,579.5	1,117.4	1,469.2	6,649.9	35,930.9	15,818.4	NA	51,749.3
1979	20,471.3	3,646.5	2,610.0	26,727.8	1,624.7	1,027.9	1,827.9	6,866.8	38,075.1	19,591.4	NA	57,666.5
1980	20,179.7	2,668.3	3,297.5	26,145.5	1,221.3	884.7	2,558.4	6,668.7	37,478.6	21,069.9	NA	58,548.5
1981	19,955.8	2,623.0	3,227.0	25,805.8	1,542.0	1,947.0	2,765.0	6,906.0	38,965.8	19,210.0	NA	58,175.8
1982	18,519.7	2,546.1	3,071.5	24,137.3	1,799.7	1,168.9	2,176.6	6,142.1	35,424.6	20,258.0	NA	55,682.6
1983	16,822.1	2,414.1	3,340.5	22,576.7	1,633.0	1,143.8	2,187.7	6,383.4	33,924.6	21,383.0	NA	55,307.6
1984	18,229.6	2,651.8	3,451.8	24,333.2	1,533.4	1,629.1	2,530.7	6,795.4	36,821.8	23,272.1	NA	60,093.9
1985	17,198.0	3,350.6	3,443.2	23,991.8	1,723.7	1,764.0	3,030.8	6,647.2	37,157.5	25,457.9	NA	62,615.4
1986	16,791.0	3,168.3	3,413.6	23,372.9	1,822.8	1,661.8	3,320.9	6,519.6	36,698.0	27,088.2	NA	63,786.2
1987	17,348.5	3,472.7	3,354.5	24,175.7	2,624.1	2,025.7	3,797.6	7,043.9	39,667.0	28,742.5	NA	68,409.5
1988	17,841.5	3,990.2	3,525.8	25,357.5	2,890.3	2,089.3	4,072.5	6,593.7	41,003.3	30,313.7	NA	71,317.0
1989	18,044.5	4,161.0	3,552.3	25,757.8	3,645.5	2,892.3	4,379.6	6,726.2	43,401.4	30,950.9	NA	74,352.3

See notes and sources at end of table

World Marketed Production of Natural Gas by Area
(Billions of Cubic Feet)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Sub Total	Communist Nations	USSR/ E.Europe(a)	Total World
1990	18,561.6	4,267.0	3,640.1	26,468.7	4,233.9	2,201.6	4,552.0	6,823.7	44,279.9	NA	31,013.8	75,293.7
1991	18,588.0	4,143.1	3,696.0	26,427.1	4,129.1	2,267.1	5,233.1	7,866.7	45,923.1	NA	30,115.4	76,038.5

NA = Not Available

(a) Due to the political changes in the USSR and Eastern Europe, the category Communist Nations has been discontinued. Beginning in 1990, all countries will be grouped by geographic region, rather than political ideology.

SOURCE: 1950-1967: U.S. Bureau of Mines, Minerals yearbook, Annual
1968-1974: U.S. Bureau of Mines, World Natural Gas
1975-1978: U.S. Energy Information Administration, World Natural Gas, Annuals
1979-1990: United States: U.S. Energy Information Administration, Natural Gas Annual
1979-1990: Rest of World: International Petroleum Encylopedia. Copyright PennWell Books, 1991
1991: International Petroleum Enclyclopedia. Copyright PennWell Books, 1992

Salient Statistics of Natural Gas in the United States
(Millions of Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Total Vented and Flared
1947	4,582,173	18,149	4,426,544	-	274,709	86,643	96,316	127,807	1,067,938
1948	5,148,020	18,704	4,945,149	-	333,173	79,035	136,406	126,796	810,178
1949	5,419,736	20,054	5,195,484	-	344,034	106,368	172,051	138,515	853,884
1950	6,282,060	25,727	6,026,404	-	408,521	175,260	229,752	175,437	801,044
1951	7,457,359	24,163	7,102,562	-	542,964	209,428	347,690	192,372	793,186
1952	8,013,457	27,456	7,613,478	7,807	623,649	221,909	398,593	203,646	848,608
1953	8,396,916	28,322	7,979,338	9,225	774,966	246,802	404,838	240,445	810,276
1954	8,742,546	28,726	8,402,852	6,847	882,501	330,177	432,283	215,709	723,567
1955	9,405,351	31,029	9,070,343	10,888	978,357	437,251	505,185	246,933	773,639
1956	10,081,923	35,963	9,706,878	10,380	1,083,812	452,762	589,232	212,992	727,004
1957	10,680,258	41,655	10,279,775	37,941	1,201,759	480,981	672,377	205,373	809,148
1958	11,030,298	38,719	10,760,698	135,797	1,317,492	621,091	704,172	283,597	633,412
1959	12,046,115	18,413	11,819,638	133,990	1,556,800	668,743	787,485	223,312	571,048
1960	12,771,038	11,332	12,509,427	155,646	1,789,970	712,658	844,352	274,231	562,877
1961	13,182,029	10,689	13,010,654	217,671	1,996,241	694,258	839,083	233,532	523,533
1962	13,801,244	15,728	13,814,678	399,353	2,145,301	849,695	935,712	284,174	425,629
1963	14,666,559	16,865	14,560,953	403,997	2,328,030	911,741	1,041,802	362,677	383,408
1964	15,462,143	19,497	15,451,979	440,918	2,387,689	880,496	1,009,302	302,781	339,996
1965	16,039,753	26,132	16,033,189	456,394	2,494,542	959,865	1,077,980	318,711	319,143
1966	17,206,628	24,639	17,191,711	479,780	2,702,759	1,141,614	1,210,469	401,203	267,514
1967	18,171,325	81,614	18,172,894	564,226	2,898,741	1,132,534	1,317,363	296,214	489,877
1968	19,322,400	93,745	19,459,939	651,885	3,168,688	1,329,536	1,425,075	325,062	516,508
1969	20,698,240	51,304	20,922,800	726,951	3,455,615	1,379,488	1,498,988	331,587	525,750
1970	21,920,642	69,813	22,045,799	820,780	3,745,680	1,458,607	1,856,767	227,650	489,460
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	1,507,630	1,839,398	338,999	284,561
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	1,757,218	1,892,952	328,002	248,119
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	1,532,820	1,974,324	195,863	248,292
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	1,700,546	1,784,209	288,731	169,381
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	1,759,565	2,103,619	235,065	133,913
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	1,921,017	1,755,690	216,240	131,930
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	1,749,884	2,306,515	41,063	136,807
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	2,157,765	2,278,002	287,201	153,350
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	2,047,000	2,295,034	372,330	167,019
1980	20,179,724	48,731	19,877,293	984,767	32,043,704	1,909,902	1,896,284	639,559	125,451
1981	19,955,823	59,372	19,403,858	903,949	39,551,253	1,886,940	2,179,683	500,501	98,017
1982	18,519,675	51,728	18,001,055	933,336	45,496,765	2,093,644	2,399,355	474,731	93,365
1983	16,822,144	54,638	16,834,914	919,752	43,614,369	2,142,027	1,700,426	642,059	94,962
1984	18,229,638	54,753	17,950,528	843,060	48,404,611	2,064,292	2,252,347	142,607	107,913
1985	17,197,999	57,095	17,280,943	949,715	43,182,598	2,359,405	2,127,932	354,065	94,778
1986	16,790,910	61,271	16,221,296	750,449	32,607,825	1,811,697	1,952,103	426,726	97,633
1987	17,348,537	54,020	17,210,809	992,532	28,888,630	1,880,951	1,887,110	432,893	123,707
1988	17,841,474	73,638	18,029,588	1,293,812	30,170,751	2,243,621	2,174,328	344,356	142,525

See notes and sources at end of table

Section XIII
Table 5a

Salient Statistics of Natural Gas in the United States
(Millions of Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	Wellhead Value (m $)	Withdrawn from Storage	Stored	Lost in Transmission	Total Vented and Flared
1989	18,044,499	106,871	18,780,192	1,381,520	30,575,912	2,803,787	2,492,985	182,217	140,532
1990	18,561,596	85,565	18,714,003	1,532,259	31,740,329	1,949,490	2,450,667	116,865	150,460

SOURCE: 1947-1975: U.S. Bureau of Mines, Natural Gas Annuals
1976-1990: U.S. Energy Information Administration, Natural Gas Annuals

United States Imports of Natural Gas by Source
(million cubic feet)

Year	Canada	Mexico	Algeria(c)	Total Imports	U.S. Natural Gas Consumption
1968	604	47	NA	652	19,460
1969	680	47	NA	727	20,923
1970	780 (a)	41	(b)	821	22,046
1971	913 (a)	21	1	935	22,677
1972	1,009 (a)	8	2	1,019	22,101
1973	1,028 (a)	2	3	1,033	22,049
1974	959	(b)	0	959	21,223
1975	948	0	5	953	19,538
1976	954	0	10	964	19,946
1977	997	2	11	1,011	19,521
1978	881	0	84	966	19,627
1979	1,001	0	253	1,253	20,241
1980	797	102	86	985	19,877
1981	762 (a)	105	37	904	19,404
1982	783	95	55	933	18,001
1983	712	75	131	918	16,835
1984	755	52	36	843	17,951
1985	926	0	24	950	17,281
1986	749	0	0	750 (d)	16,221
1987	993	0	0	993	17,211
1988	1,276	0	17	1,294	18,030
1989	1,339	0	42	1,382	18,780
1990	1,448	0	84	1,532	18,714

(a) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, 0.7 billion cubic feet in 1973, and 0.6 billion cubic feet in 1981.
(b) Less than 500 million cubic feet.
(c) Liquefied natural gas.
(d) Includes a small amount from Indonesia.

SOURCE: 1968-1977: U.S. Energy Information Administration, World Natural Gas Annuals.
1978-1981: U.S. Energy Information Administration, U.S. Imports and Exports of Natural Gas
1982-1987: U.S. Energy Information Administration, Natural Gas Monthly, May issue
1988-1990: U.S. Energy Information Administration, Natural Gas Annual.

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1975	Nation	1976	Nation	1977	Nation	1978
1. U.S.S.R.	810,000	1. U.S.S.R	800,000	1. U.S.S.R.	918,000	1. U.S.S.R	920,000
2. Iran	330,000	2. Iran	329,500	2. Iran	330,000	2. Iran	500,000
3. United States	237,132	3. United States	228,200	3. United States	216,026	3. United States	208,878
4. Algeria	229,000	4. Algeria	126,000	4. Algeria	125,800	4. Algeria	125,000
5. United Arab Emirates	200,000	5. Saudi Arabia	103,000	5. Saudi Arabia	86,000	5. Saudi Arabia	85,000
6. Netherlands	94,800	6. Netherlands	70,000	6. Netherlands	61,900	6. Netherlands	60,000
7. Canada	56,708	7. Canada	56,975	7. Canada	58,282	7. Canada	58,000
8. Saudi Arabia	55,000	8. United Kingdom	50,000	8. Nigeria	44,000	8. Nigeria	43,000
9. United Kingdom	50,000	9. Nigeria	44,300	9. Venezuela	40,700	9. Venezuela	41,000
10. Nigeria	45,500	10. Venezuela	42,000	10. Australia	32,300	10. Qatar	40,000
11. Venezuela	43,000	11. Australia	32,500	11. Kuwait	31,700	11. Australia	32,000
12. Australia	38,000	12. Kuwait	31,800	12. United Kingdom	30,000	12. Kuwait	31,500
13. Kuwait	32,000	13. Libya	26,300	13. Qatar	27,500	13. Mexico	30,000
14. Iraq	27,500	14. Norway	25,000	14. Iraq	27,000	14. United Kingdom	29,000
15. Libya	26,500	15. China	25,000	15. Libya	25,800	15. Iraq	28,000
16. China	25,000	16. United Arab Emirates	20,000	16. China	25,000	16. Libya	25,700
17. Norway	24,700	17. Pakistan	16,400	17. Indonesia	24,000	17. China	25,000
18. Brunei-Malaysia	22,000	18. Indonesia	15,000	18. Norway	18,500	18. Indonesia	24,000
19. Indonesia	15,000	19. Malaysia	15,000	19. Pakistan	15,820	19. United Arab Emirates	20,000
20. Mexico	15,000	20. Bolivia	10,800	20. Malaysia	15,000	20 Norway	20,000
Total World	2,546,404	Total World	2,248,897	Total World	2,114,905	Total World	2,518,437

See notes and sources at end of table

Section XIII
Table 7a

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1979	Nation	1980	Nation	1981	Nation	1982
1. U.S.S.R.	910,000	1. U.S.S.R.	900,000	1. U.S.S.R.	920,000	1. U.S.S.R.	1,160,000
2. Iran	500,000	2. Iran	490,000	2. Iran	485,000	2. Iran	484,000
3. United States	200,302	3. United States	194,917	3. United States	199,021	3. United States	201,730
4. Algeria	105,000	4. Algeria	132,000	4. Algeria	131,500	4. Algeria	130,900
5. Saudi Arabia	93,900	5. Saudi Arabia	93,230	5. Saudi Arabia	110,000	5. Saudi Arabia	114,000
6. Netherlands	62,000	6. Canada	85,500	6. Canada	87,300	6. Canada	89,900
7. Canada	59,000	7. Qatar	60,000	7. Mexico	64,500	7. Mexico	75,350
8. Nigeria	42,000	8. Netherlands	59,500	8. Netherlands	62,000	8. Qatar	60,000
9. Venezuela	41,000	9. Mexico	59,000	9. Qatar	60,000	9. Netherlands	55,700
10. Qatar	40,000	10. Venezuela	42,800	10. Norway	42,700	10. Norway	49,370
11. Mexico	32,000	11. Nigeria	41,400	11. Venezuela	42,000	11. Venezuela	47,000
12. Kuwait	31,300	12. Kuwait	31,000	12. Nigeria	41,000	12. Nigeria	40,500
13. Australia	31,000	13. Australia	31,000	13. Kuwait	30,800	13. Kuwait	30,500
14. Iraq	27,800	14. Iraq	27,500	14. Australia	30,000	14. Indonesia	27,400
15. United Kingdom	27,000	15. United Kingdom	25,000	15. Iraq	27,450	15. Iraq	27,300
16. China	25,000	16. China	25,000	16. United Kingdom	24,800	16. United Kingdom	26,000
17. Libya	24,200	17. Libya	24,000	17. China	24,500	17. China	24,400
18. Indonesia	24,000	18. Indonesia	24,000	18. Libya	23,800	18. Argentina	23,400
19. Norway	24,000	19. Norway	23,500	19. Indonesia	23,500	19. United Arab Emirates	23,250
20. United Arab Emirates	21,600	20. United Arab Emirates	20,500	20. Argentina	22,000	20. Libya	23,000
Total World	2,497,312	Total World	2,574,158	Total World	2,646,522	Total World	2,915,076

See notes and sources at end of table

Section XIII
Table 7b

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1983	Nation	1984	Nation	1985	Nation	1986
1. U.S.S.R.	1,240,000	1. U.S.S.R.	1,400,000	1. U.S.S.R.	1,450,000	1. U.S.S.R.	1,500,000
2. Iran	482,600	2. Iran	480,000	2. Iran	478,600	2. Iran	470,000
3. United States	201,512	3. United States	200,247	3. United States	197,463	3. United States	193,369
4. Saudi Arabia	117,000	4. Saudi Arabia	121,000	4. Qatar	150,000	4. Qatar	148,000
5. Algeria	111,250	5. Algeria	110,180	5. Saudi Arabia	123,270	5. Saudi Arabia	121,000
6. Canada	97,000	6. Canada	90,500	6. Algeria	109,100	6. Algeria	107,080
7. Mexico	75,850	7. Mexico	75,352	7. Canada	92,300	7. Norway	104,000
8. Qatar	62,000	8. Qatar	62,000	8. Norway	89,000	8. Canada	99,700
9. Norway	58,000	9. Norway	58,800	9. Mexico	77,000	9. Mexico	76,954
10. Venezuela	54,079	10. Venezuela	54,546	10. Netherlands	68,482	10. Netherlands	67,070
11. Netherlands	51,920	11. Netherlands	50,050	11. Venezuela	55,367	11. Venezuela	59,067
12. Malaysia	34,000	12. Malaysia	48,000	12. Malaysia	50,000	12. Malaysia	52,700
13. Nigeria	32,400	13. Nigeria	34,800	13. Indonesia	40,000	13. Nigeria	47,000
14. Kuwait	29,900	14. Kuwait	31,000	14. Nigeria	35,600	14. Indonesia	35,600
15. Indonesia	29,600	15. United Arab Emirates	30,820	15. Kuwait	32,500	15. United Kingdom	33,000
16. Iraq	28,800	16. China	30,300	16. United Arab Emirates	31,570	16. Kuwait	32,500
17. United Arab Emirates	28,580	17. Indonesia	30,200	17. China	30,900	17. United Arab Emirates	32,400
18. United Kingdon	25,400	18. Iraq	29,000	18. Iraq	28,800	18. China	30,000
19. Argentina	25,200	19. United Kingdom	25,100	19. United Kingdom	27,800	19. Iraq	29,000
20. Libya	21,500	20. Argentina	24,420	20. Argentina	24,628	20. Argentina	23,588
Total World	3,031,039	Total World	3,202,197	Total World	3,401,488	Total World	3,480,429

See notes and sources at end of table

Section XIII
Table 7c

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1987	Nation	1988	Nation	1989	Nation	1990
1. U.S S.R	1,550,000	1. U.S.S.R.	1,450,000	1. U.S.S.R.	1,500,000	1. U.S.S.R.	1,500,000
2. Iran	450,000	2. Iran	489,400	2. Iran	494,400	2. Iran	500,400
3. United States	191,586	3. United Arab Emirates	201,500	3. United Arab Emirates	199,515	3. United Arab Emirates	191,800
4. Qatar	152,000	4. United States	187,211	4. United States	168,024	4. Saudi Arabia	181,347
5. Saudi Arabia	123,990	5. Qatar	156,700	5. Qatar	156,700	5. United States	167,116
6. Algeria	106,000	6. Saudi Arabia	139,900	6. Saudi Arabia	145,848	6. Qatar	163,100
7. United Arab Emirates	103,400	7. Norway	105,940	7. Algeria	104,200	7. Algeria	114,000
8. Norway	103,180	8. Algeria	105,900	8. Venezuela	102,243	8. Venezuela	100,846
9. Canada	99,600	9. Canada	98,000	9. Canada	95,100	9. Iraq	95,000
10. Mexico	76,500	10. Venezuela	95,000	10. Iraq	95,000	10. Canada	94,300
11. Netherlands	70,400	11. Nigeria	84,000	11. Norway	85,500	11. Nigeria	87,400
12. Venezuela	59,000	12. Mexico	76,530	12. Nigeria	85,000	12. Indonesia	87,015
13. Malaysia	49,440	13. Indonesia	73,000	13. Indonesia	83,590	13. Norway	82,160
14. Indonesia	49,440	14. Netherlands	64,100	14. Mexico	74,831	14. Mexico	73,380
15. Nigeria	47,000	15. Malaysia	52,200	15. Netherlands	62,507	15. Netherlands	61,107
16. Kuwait	35,000	16. Kuwait	36,400	16. Malaysia	51,700	16. Malaysia	51,900
17. United Kingdom	33,400	17. China	30,700	17. Kuwait	42,500	17. Kuwait	48,600
18. China	30,000	18. Iraq	26,300	18. China	31,700	18. China	35,300
19. Iraq	28,000	19. Libya	25,700	19. Argentina	26,700	19. Argentina	27,299
20. Argentina	23,000	20. Argentina	23,600	20. Libya	25,700	20. Libya	25,500
Total World	3,632,166	Total World	3,797,511	Total World	3,936,165	Total World	3,991,235

See notes and sources at end of table

Estimated Natural Gas Reserves-Twenty Leading Nations
(as of January 1)
(Billions of Cubic Feet)

Nation	1991	Nation	1992
1. U.S.S.R	1,600,000	1. U.S.S.R	1,750,000
2. Iran	600,350	2. Iran	600,350
3. United Arab Emirates	198,400	3. United Arab Emirates	198,100
4. Saudi Arabia	180,355	4. Saudi Arabia	184,048
5. United States	169,346	5. United States	169,300
6. Qatar	163,200	6. Qatar	162,000
7. Algeria	114,700	7. Algeria	116,500
8. Venezuela	105,688	8. Venezuela	110,000
9. Canada	97,589	9. Nigeria	104,720
10. Iraq	95,000	10. Canada	96,734
11. Indonesia	91,450	11. Iraq	95,000
12. Nigeria	87,400	12. Mexico	71,508
13. Mexico	72,744	13. Netherlands	69,570
14. Netherlands	60,900	14. Indonesia	64,837
15. Norway	60,674	15. Norway	60,670
16. Malaysia	56,900	16. Malaysia	59,055
17. Kuwait	48,600	17. Kuwait	48,000
18. Libya	43,000	18. Libya	43,000
19. China	35,300	19. China	35,400
20. Argentina	27,000	20. Argentina	20,449
Total World	4,208,315	Total World	4,378,056

SOURCE: 1975-1980: United States, American Gas Association, Committee on Natural Gas Reserves
1981-1991: United States, U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves, Annuals.
1975-1978: Canada: Canadian Petroleum Association
1979-1991: Canada, Oil & Gas Journal, Worldwide Report
1975-1991: Rest of the World, The Oil & Gas Journal, Worldwide Report
1992: All nations: Oil & Gas Journal, Worldwide Production Report

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1974(a)(b)	Nation	1975(a)(b)	Nation	1976(a)(b)	Nation	1977(a)(b)
1. United States	21,600.5	1. United States	20,108.7	1. United States	19,952.4	1. United States	20,337.5
2. U.S.S.R.	9,201.3	2 U.S.S.R.	10,205.9	2. U.S.S.R.	11,331.3	2. U.S.S.R.	12,395.2
3. Canada	3,045.5	3. Netherlands	3,208.4	3. Netherlands	3,542.7	3. Canada	3,301.4
4. Netherlands	2,956.7	4. Canada	3,075.7	4. Canada	3,157.2	4. Netherlands	2,932.5
5. United Kingdom	1,230.0	5. China	1,400.0	5. Iran	1,699.6	5 China	1,787.0
6. China	1,200.0	6. United Kingdom	1,208.2	6. China	1,433.7	6. Iran	1,756.1
7. Romania	1,011.5	7. Romania	953.5	7. United Kingdom	1,202.3	7. United Kingdom	1,499.9
8. Iran	787.4	8. Iran	771.1	8. Romania	854.6	8. Romania	1,005.5
9. West Germany	713.2	9. West Germany	639.4	9. Mexico	790.8	9. West Germany	907.7
10. Mexico	560.9	10. Mexico	583.9	10. Nigeria	632.6	10. Mexico	745.3
11. Italy	540.4	11. Italy	514.3	11. Italy	562.1	11. Nigeria	717.4
12. Venezuela	476.0	12. Venezuela	450.3	12. West Germany	544.0	12. Libya	488.6
13. Libya	345.2	13. Libya	382.6	13 Libya	439.2	13. Italy	448.6
14. East Germany	273.1	14. East Germany	280.0	14. Venezuela	396.0	14. Venezuela	392.8
15 France	269.4	15. Argentina	271.6	15. Argentina	280.2	15. Indonesia	351.9
16. Argentina	255.7	16. France	259.8	16. Algeria	256.9	16. Algeria	284.5
17 Saudi Arabia	219.0	17. Poland	210.6	17. France	250.7	17. France	256.8
18 Poland	202.7	18. Algeria	210.0	18. Indonesia	248.6	18. Argentina	250.0
19. Algeria	198.5	19. Saudi Arabia	200.0	19. Australia	209.3	19. Australia	236.7
20. Kuwait	186.9	20. Brunei	186.5	20. Chile	175.8	20. Chile	208.9
Total World	47,171.5	Total World	47,207.3	Total World	50,367.1	Total World	53,883.7

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1978(a)(b)	Nation	1979(a)(b)	Nation	1980(a)(b)	Nation	1981(a)(b)
1. United States	19,974.0	1. United States	20,471.3	1. United States	20,378.8	1. United States	20,177.7
2. U.S.S.R.	13,131.6	2. U.S.S.R.	14,367.1	2. U.S.S.R.	15,355.5	2. U.S.S.R.	16,390.0
3. Canada	3,133.1	3. Canada	3,646.5	3. China	3,469.0	3. Netherlands	3,054.0
4. China	2,352.2	4. China	2,832.7	4. Netherlands	2,799.6	4. Canada	2,623.0
5. Iran	1,746.9	5. Netherlands	2,717.8	5. Canada	2,668.3	5. Mexico	1,486.0
6. Netherlands	1,624.5	6. United Kingdom	1,965.7	6. United Kingdom	1,500.0	6. Romania	1,440.0
7. United Kingdom	1,262.4	7. Romania	1,210.5	7. Mexico	1,190.5	7. United Kingdom	1,427.0
8. Romania	1,211.6	8. Mexico	974.9	8. Romania	1,176.4	8. Algeria	1,149.0
9. Mexico	887.5	9. Iran	913.3	9. Indonesia	1,028.4	9. Indonesia	1,075.0
10. West Germany	643.2	10. West Germany	826.3	10. West Germany	738.6	10. Norway	923.0
11. Nigeria	586.6	11. Indonesia	816.3	11. Norway	705.2	11. Libya	674.0
12. Indonesia	565.8	12. Italy	533.6	12. Pakistan	600.0	12. West Germany	636.0
13 Italy	540.8	13. Norway	414.9	13. Italy	524.6	13. Venezuela	602.0
14. Venezuela	401.4	14. Venezuela	406.0	14. Venezuela	518.0	14. Pakistan	600.0
15. Libya	364.0	15. Nigeria	365.6	15. Algeria	517.0	15. Italy	500.0
16 Norway	351.8	16. Chile	306.4	16. Saudi Arabia	310.2	16. China	459.0
17 Algeria	328.7	17. Brunei-Malaysia	302.7	17. Argentina	296.9	17. Saudi Arabia	435.0
18 Brunei-Malaysia	325.7	18. Algeria	301.5	18 Iran	292.0	18. Australia	377.0
19 Chile	320.7	19. Australia	254.1	19. Kuwait	291.3	19. Kuwait	340.0
20. Argentina	254.3	20. Argentina	241.7	20. Brunei	282.0	20. Argentina	330.0
Total World	53,911.1	Total World	57,666.5	Total World	58,747.7	Total World	58,397.7

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1982(a)(b)	Nation	1983(a)(b)	Nation	1984(a)(b)	Nation	1985(a)(b)
1. United States	18,519.7	1. U.S.S.R.	18,903.0	1. U.S.S.R.	20,721.1	1. U.S.S.R.	22,697.9
2. U.S.S.R.	17,685.3	2. United States	16,822.1	2. United States	18,229.6	2. United States	17,198.0
3. Canada	2,546.1	3. Netherlands	2,678.9	3. Netherlands	2,677.5	3. Canada	3,350.6
4. Netherlands	2,521.7	4. Canada	2,414.1	4. Canada	2,651.8	4. Netherlands	2,858.8
5. Mexico	1,549.7	5. Mexico	1,479.5	5. United Kingdom	1,423.3	5. United Kingdom	1,497.1
6. United Kingdom	1,276.1	6. United Kingdom	1,395.3	6. Mexico	1,373.3	6. Algeria	1,320.0
7. Romania	1,150.0	7. Romania	1,200.0	7. Algeria	1,260.0	7. Mexico	1,312.2
8. Norway	861.9	8. Norway	861.4	8. Romania	1,240.0	8. Romania	1,200.0
9. Algeria	828.5	9. Algeria	707.0	9. Norway	922.6	9. Indonesia	1,056.0
10. Saudi Arabia	591.8	10. West Germany	605.2	10. Indonesia	732.0	10. Norway	902.2
11. West Germany	585.3	11. Venezuela	559.2	11. Argentina	653.2	11. Argentina	667.3
12. Indonesia	568.9	12. Argentina	549.6	12. West Germany	648.2	12. Venezuela	609.6
13. Venezuela	527.2	13. Iran	500.2	13. Italy	638.9	13. West Germany	608.1
14. Italy	503.6	14. Indonesia	481.8	14. Venezuela	609.6	14. China	600.0
15. Australia	415.8	15. Italy	450.1	15. Australia	444.4	15. Iran	480.0
16. Argentina	386.2	16. Australia	423.5	16. China	420.0	16. Australia	473.7
17. Iran	381.5	17. Saudi Arabia	381.5	17. France	373.4	17. Italy	448.9
18. China	363.7	18. China	371.0	18. Iran	360.0	18. Pakistan	355.3
19. France	332.6	19. Pakistan	341.4	19. Pakistan	355.2	19. United Arab Emirates	336.0
20. Pakistan	315.3	20. Brunei	316.3	20. Brunei	312.0	20. Brunei	300.0
Total World	55,682.6	Total World	55,307.6	Total World	60,093.9	Total World	62,615.4

See notes and sources at end of table

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1986(a)(b)	Nation	1987(a)(b)	Nation	1988(a)(b)	Nation	1989(a)(b)
1. U.S.S.R.	24,215.8	1. U.S.S.R.	25,673.8	1. U.S.S.R.	27,192.3	1. U.S.S.R	28,145.0
2. United States	16,791.0	2. United States	17,348.5	2. U.S.	17,841.5	2. United States	18,044.5
3. Canada	3,168.3	3. Canada	3,472.7	3. Canada	3,990.2	3. Canada	4,161.0
4. Netherlands	2,623.3	4. Netherlands	2,731.2	4. Netherlands	2,412.8	4. Netherlands	2,606.3
5. United Kingdom	1,634.0	5. United Kingdom	1,655.3	5. United Kingdom	1,640.5	5. Algeria	2,316.5
6. Mexico	1,252.3	6. Algeria	1,471.6	6. Algeria	1,542.4	6. United Kingdom	1,520.8
7. Algeria	1,238.3	7. Mexico	1,277.4	7. Romania	1,318.8	7. Indonesia	1,345.7
8. Romania	1,210.2	8. Romania	1,267.8	8. Mexico	1,308.5	8. Mexico	1,307.4
9. Indonesia	1,559.9	9. Indonesia	1,234.8	9. Indonesia	1,223.7	9. Romania	1,236.6
10. Norway	906.2	10. Norway	994.1	10. Norway	1,002.9	10. Saudi Arabia	1,079.8
11. Argentina	661.8	11. Saudi Arabia	740.9	11. Saudi Arabia	899.3	11. Norway	1,014.9
12. China	646.0	12. Italy	697.2	12. Argentina	757.4	12. Argentina	846.2
13. Venezuela	615.1	13. Venezuela	680.3	13. Venezuela	722.9	13. Iran	793.9
14. West Germany	545.4	14. Iran	670.7	14. China	715.3	14. United Arab Emirates	790.7
15. Italy	527.3	15. Argentina	659.6	15. Italy	703.7	15. Venezuela	740.1
16 Australia	524.1	16. West Germany	658.9	16. United Arab Emirates	600.0	16. Italy	707.4
17. Iran	489.3	17. United Arab Emirates	575.0	17. West Germany	551.7	17. Australia	629.7
18. Pakistan	390.3	18. Australia	532.8	18. Australia	544.4	18. West Germany	567.2
19. United Arab Emirates	362.1	19. Malaysia	460.9	19. Malaysia	464.8	19. Malaysia	526.0
20 Saudi Arabia	328.7	20. Pakistan	419.8	20. Pakistan	441.7	20. China	515.2
Total World	63,786.2	Total World	68,409.5	Total World	71,317.0	Total World	74,352.3

See notes and sources at end of table

Section XIII
Table 8d

World Natural Gas Production-Twenty Leading Nations
(Billions of Cubic Feet)

Nation	1990(a)(b)	Nation	1991(a)(b)
1. U.S.S.R	28,800.0	1. U.S.S.R	28,660.0
2. United States	18,561.6	2. United States	18,588.0
3. Canada	4,267.0	3. Canada	4,143.1
4. Netherlands	2,618.1	4. Netherlands	2,919.6
5. United Kingdom	1,700.7	5. United Kingdom	1,954.0
6. Algeria	1,588.0	6. Algeria	1,620.1
7. Saudi Arabia	1,401.2	7. Saudi Arabia	1,590.0
8. Indonesia	1,383.2	8. Indonesia	1,362.6
9. Mexico	1,322.7	9. Mexico	1,349.6
10. Romania	1,181.1	10. United Arab Emirates	1,163.8
11. United Arab Emirates	1,092.1	11. Venezuela	1,002.7
12. Norway	896.5	12. Germany	966.3
13. Venezuela	862.0	13. Romania	965.5
14. Iran	854.4	14. Norway	869.1
15. Argentina	816.1	15. Iran	781.0
16. Australia	749.9	16. Australia	756.8
17. Italy	736.8	17. Argentina	747.3
18. Malaysia	569.7	18. Italy	712.0
19. West Germany	565.7	19. Malaysia	584.8
20. China	517.7	20. China	534.1
Total World	75,607.8	Total World	76,038.5

(a) Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.
(b) United States is reported marketed production, all others may include some gross production.

SOURCE: 1974-1975: U.S. Bureau of Mines, World Natural Gas, May 27, 1977
1976-1990: U.S. Energy Information Administration, United States only
1976-1990: Rest of World: International Petroleum Encyclopedia, Copyright PennWell Books, 1991
1991: International Petroleum Encyclopedia, Copyright PennWell Books, 1992

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	0	0	0	2	1	4	41	87	282	42	190	323	172
Alaska	0	0	0	0	0	0	0	0	0	0	0	50	133
Arizona	0	0	0	0	0	0	0	0	15	21	0	0	0
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890	40,674
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582	485,655
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464	99,899
Florida	8	27	39	8	10	15	34	35	36	35	34	35	34
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983	13,739
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378	484
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816	604,410
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248	73,504
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587	2670271
Maryland	0	0	0	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266	4,373
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243	18,916
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143	162,095
Missouri	38	27	24	21	14	16	15	16	15	12	12	0	0
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989	30,743
Nebraska	0	0	0	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405	13,128
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446	739,660
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,598	3,637	4,098	2,869	2,808	2,915
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325	17,915
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786	34,664
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504	811,508
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869	99,366
South Dakota	6	2	1	0	7	6	5	7	0	0	0	0	0
Tennessee	80	127	83	132	132	107	89	89	39	45	38	54	52
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5.156,215	5,178,173	5,718,993
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247	38,921
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521	2,280
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581	204,633
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682	156,978
Total	4,582,173	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,396,916	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298	12,046,115

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	57	56	128	177	165	203	252	248	230	180	627	355	3,644
Alaska	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576	121,618	125,596
Arizona	0	0	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101	868	442
Arkansas	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351	172,154	166,522
California	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689	649,117	612,629	487,278
Colorado	107,404	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804	108,537	116,949
Florida	30	29	29	35	40	107	212	123	108	50	0	903	15,521
Illinois	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850	498	1,194
Indiana	342	382	284	286	199	239	215	198	234	171	153	537	355
Kansas	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955	885,144	889,268
Kentucky	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892	72,723	63,648
Louisiana	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276	8,081,907	7,972,678
Maryland	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978	813	214	244
Michigan	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851	25,662	34,221
Mississippi	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031	118,805	103,989
Missouri	75	90	92	100	107	84	0	121	14	126	87	22	9
Montana	33,418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705	32,720	33,474
Nebraska	15,258	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991	3,496	3,478
New Mexico	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980	1,167,577	1,216,061
New York	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358	2,202	3,679
North Dakota	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889	33,864	32,472
Ohio	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113	79,903	89,995
Oklahoma	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943	1,684,260	1,806,887
Oregon	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841	76,451	73,958
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	63	71	75	90	77	85	0	58	48	57	64	89	25
Texas	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716	8,550,705	8,657,840
Utah	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781	42,418	39,474
Virginia	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805	2,619	2,787
West Virginia	208,757	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452	234,027	214,951
Wyoming	181,610	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517	338,520	380,105	375,059
Total	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240	21,920,642	22,493,012	22,531,698

See notes and sources at end of table

Section XIII
Table 9b

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	11,271	27,865	37,814	41,427	57,227	85,599	85,815	105,527	119,334	75,003	90,801	101,821	107,342
Alaska	131,007	128,935	160,270	166,072	187,889	203,088	220,754	230,588	242,564	264,364	276,691	289,129	321,346
Arizona	125	224	208	262	240	286	247	214	187	99	132	45	85
Arkansas	157,529	123,975	116,237	109,533	104,096	106,792	109,452	111,808	92,986	124,611	127,561	135,161	155,099
California	449,369	365,354	318,308	354,334	311,462	311,084	248,206	309,783	380,730	383,977	415,324	476,333	491,283
Colorado	137,725	144,629	171,629	183,972	188,792	183,693	191,239	190,814	199,146	209,892	163,545	173,257	178,233
Florida	33,857	38,137	44,383	43,165	48,171	51,595	50,190	45,744	35,938	22,515	21,056	12,585	10,545
Illinois	1,638	1,436	1,440	1,556	1,003	1,159	1,585	1,574	1,295	1,162	1,030	1,530	1,324
Indiana	276	176	346	192	183	163	350	463	330	233	135	394	367
Kansas	893,118	886,782	843,625	829,170	781,289	854,484	797,762	735,035	640,114	429,597	434,736	465,979	512,872
Kentucky	62,396	71,876	60,511	66,137	60,902	70,044	59,520	57,180	61,312	51,924	46,720	61,518	73,126
Louisiana	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217	6,939,924	6,780,184	6,171,627	5,332,113	5,825,055	5,013,702
Maryland	298	133	93	75	82	88	28	68	56	36	31	60	39
Michigan	44,579	69,133	102,113	119,262	129,954	148,047	159,731	158,302	152,593	153,051	138,910	144,537	131,855
Mississippi	99,706	78,787	74,345	70,762	82,995	106,579	144,077	185,469	211,371	167,231	151,204	157,911	144,172
Missouri	33	33	30	29	20	0	0	0	0	0	0	4	4
Montana	56,175	54,873	40,734	42,563	46,819	46,522	53,888	51,867	56,565	56,517	51,967	51,474	52,494
Nebraska	3,836	2,538	2,565	2,511	2,789	2,882	3,208	2,550	2,519	2,280	2,091	2,300	1,944
New Mexico	1,218,749	1,244,779	1,217,430	1,230,976	1,202,973	1,174,198	1,181,363	1,149,781	1,134,113	991,178	895,279	957,366	905,272
New York	4,539	4,990	7,628	9,235	10,682	13,900	15,500	15,643	16,074	15,877	17,836	25,200	31,561
North Dakota	27,703	31,206	24,786	31,470	29,173	30,499	18,468	42,346	42,573	53,818	69,319	70,496	72,633
Ohio	93,610	92,055	84,960	88,891	99,327	114,098	123,431	138,856	141,134	138,391	151,300	186,480	182,245
Oklahoma	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366	1,891,824	2,019,199	1,934,412	1,730,061	1,985,869	1,936,341
Oregon	0	0	0	0	0	0	2	5	5	3	3	2,790	4,080
Pennsylvania	78,514	82,637	84,676	89,386	91,717	97,763	96,313	97,439	122,454	121,111	118,372	166,342	150,234
South Dakota	0	0	0	0	0	0	914	1,193	1,155	2,331	1,846	1,947	2,558
Tennessee	20	17	27	47	263	465	941	1,241	1,719	2,976	3,950	5,022	4,686
Texas	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623	7,251,879	7,050,207	6,468,817	5,938,561	6,185,021	6,052,663
Utah	42,715	50,522	55,354	57,416	60,696	58,416	58,605	87,766	91,191	94,255	63,158	74,698	83,405
Virginia	5,101	7,096	6,723	6,937	8,220	8,492	8,544	7,812	8,903	6,880	4,346	8,901	15,041
West Virginia	208,676	202,306	154,484	153,322	152,767	148,564	150,505	156,551	161,251	150,850	130,078	143,730	144,883
Wyoming	357,731	326,657	316,123	328,768	330,180	357,267	414,416	409,541	410,499	424,657	443,988	516,683	416,565
Total	22,647,549	21,600,522	20,108,661	19,952,438	20,025,463	19,974,033	20,471,260	20,378,787	20,177,701	18,519,675	16,822,144	18,229,638	17,197,999

See notes and sources at end of table

United States Marketed Production (a) of Natural Gas by State
(Millions of Cubic Feet)

State	1986	1987	1988	1989	1990
Alabama	107,184	117,241	129,524	128,411	135,276
Alaska	304,841	359,837	378,638	393,729	402,907
Arizona	63	60	56	1,360	2,125
Arkansas	131,075	141,151	166,573	168,300	174,956
California	462,218	424,621	399,663	362,860	362,748
Colorado	163,684	164,557	191,544	216,737	242,997
Florida	8,833	8,281	7,484	7,534	6,483
Illinois	1,887	1,371	1,338	1,477	677
Indiana	365	217	412	416	399
Kansas	465,695	457,050	576,274	587,230	573,603
Kentucky	80,195	70,125	73,629	72,417	75,333
Louisiana	4,895,394	5,122,509	5,180,267	5,078,125	5,241,989
Maryland	20	44	29	34	22
Michigan	127,287	146,996	146,145	155,988	139,955
Mississippi	140,833	139,727	124,053	102,645	94,616
Missouri	4	4	4	4	7
Montana	46,592	46,456	51,654	51,307	50,429
Nebraska	1,403	1,261	910	878	793
New Mexico	702,614	823,773	791,819	854,615	965,104
New York	29,964	25,676	23,455	20,433	25,023
North Dakota	55,098	62,258	57,747	51,174	52,169
Ohio	182,072	166,593	166,690	159,730	154,619
Oklahoma	1,917,493	2,004,797	2,106,632	2,185,204	2,258,471
Oregon	4,600	3,800	4,000	2,500	2,815
Pennsylvania	159,889	163,318	167,089	191,774	177,609
South Dakota	2,231	3,431	3,920	4,369	881
Tennessee	3,464	2,707	2,100	1,900	2,067
Texas	6,151,775	6,126,315	6,286,029	6,241,425	6,343,146
Utah	90,013	87,158	101,372	120,089	145,875
Virginia	15,427	19,223	18,424	17,935	14,774
West Virginia	135,431	160,000	174,942	198,200	178,000
Wyoming	403,266	497,980	509,058	665,699	735,728
Total	16,790,910	17,348,537	17,841,474	18,044,499	18,561,596

(a) Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

SOURCE: 1947-1975: U.S. Bureau of Mines, Natural Gas Annuals
1976-1990: U.S Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	50,713	61,113	71,072	92,466	111,030	125,874	136,825	139,551	151,325	160,261	165,772	172,406	178,595
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	133
Arizona	27,768	34,983	44,489	53,419	62,046	63,111	71,210	75,568	88,983	105,860	105,536	105,034	112,722
Arkansas	102,779	112,675	113,922	135,609	155,524	165,603	176,489	192,378	197,374	196,297	201,306	202,361	218,528
California	548,382	617,615	619,323	683,924	787,848	792,520	862,243	933,934	1,020,395	1,021,002	1,091,236	1,078,855	1,180,331
Colorado	49,027	60,585	73,664	88,692	102,769	101,835	115,922	126,048	143,018	145,640	176,936	165,099	196,057
Connecticut	-	-	-	-	-	1,039	5,833	11,415	14,187	18,109	20,328	27,884	25,875
Delaware	-	-	708	1,022	1,679	2,276	1,972	2,980	4,280	5,824	6,014	8,301	9,459
Dist. of Col.	8,474	9,361	9,305	10,694	11,904	12,782	13,134	14,261	15,042	15,833	15,701	17,594	17,123
Florida	7,891	8,973	10,185	12,348	13,044	16,001	19,577	23,159	26,402	35,322	38,871	44,174	91,490
Georgia	41,368	47,552	58,824	67,834	94,596	108,329	122,742	132,069	133,044	148,567	154,778	164,114	180,342
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	765	10,733	15,903	19,641
Illinois	132,153	168,796	202,546	235,211	250,812	344,705	350,980	391,408	398,718	417,443	422,840	452,006	518,111
Indiana	42,528	50,774	55,263	58,620	69,177	96,124	103,444	116,308	126,897	140,135	145,179	154,583	171,158
Iowa	40,948	50,350	57,620	66,233	79,640	94,951	106,755	119,876	138,661	147,892	154,964	159,982	182,827
Kansas	191,952	199,893	206,593	242,603	278,892	279,632	283,604	293,764	309,028	324,335	343,833	362,280	380,241
Kentucky	36,938	41,357	45,504	61,323	74,386	87,006	104,781	110,039	117,496	126,580	132,436	136,990	147,993
Louisiana	375,206	426,837	450,712	475,500	549,305	599,312	594,656	636,704	774,320	839,393	840,331	931,203	893,369
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Maryland	3,402	4,280	4,821	13,813	22,286	26,468	29,470	35,010	39,889	47,553	51,177	57,328	60,674
Massachusetts	-	-	-	-	1,783	11,386	17,683	35,486	43,932	50,691	56,626	67,602	72,994
Michigan	80,571	75,978	84,315	127,180	154,283	163,991	178,307	188,922	207,005	243,465	272,353	298,104	332,756
Minnesota	43,198	52,376	59,040	67,861	84,205	97,591	104,508	115,140	123,734	136,831	147,732	149,042	161,390
Mississippi	52,461	65,245	60,987	76,918	97,786	119,638	118,617	136,797	138,186	145,353	148,279	157,169	183,158
Missouri	78,101	90,883	99,667	140,384	156,922	168,992	173,674	186,349	199,272	219,424	223,528	241,239	255,095
Montana	30,919	32,919	34,361	38,544	37,481	40,771	39,934	40,624	47,491	47,690	52,200	51,825	52,183
Nebraska	39,699	47,647	51,911	61,742	72,386	78,544	83,384	93,189	102,177	109,265	116,326	114,661	132,651
Nevada	-	-	-	-	-	-	-	982	2,484	6,676	8,666	8,826	10,450
New Hampshire	-	-	-	-	3	316	857	1,065	1,206	1,445	1,787	2,421	2,480
New Jersey	-	-	3,172	3,209	30,887	40,409	58,685	65,718	74,601	90,092	100,483	119,946	132,984
New Mexico	102,766	110,132	127,423	147,509	174,808	194,748	200,039	177,221	215,281	229,821	243,800	251,518	272,922
New York	41,572	44,200	51,064	65,157	144,920	180,747	197,878	225,844	243,513	268,408	299,153	343,326	379,928
North Carolina	-	-	-	-	1,631	2,945	6,172	9,436	12,644	16,579	19,533	23,519	32,685
North Dakota	2,608	2,712	2,686	3,279	3,408	3,342	3,559	4,820	9,320	10,428	13,753	15,639	16,981
Ohio	221,571	236,137	246,212	324,594	375,820	393,250	420,809	442,523	500,865	561,557	583,753	618,022	670,618
Oklahoma	254,522	277,955	258,579	286,793	307,887	319,908	333,972	327,936	334,057	358,930	387,277	342,080	379,178
Oregon	-	-	-	-	-	-	-	-	-	4,473	18,227	22,752	27,498
Pennsylvania	175,906	191,631	209,749	263,199	311,937	324,187	335,457	350,185	390,280	431,325	445,813	465,732	502,066
Rhode Island	-	-	-	-	-	-	670	4,423	5,375	6,242	8,139	9,940	11,011
South Carolina	-	-	-	-	853	2,896	8,772	16,573	23,043	44,467	39,741	39,678	54,363
South Dakota	8,016	8,540	8,212	10,001	11,447	11,701	13,688	15,564	16,107	18,002	18,251	19,535	23,584
Tennessee	33,986	37,766	41,609	67,813	88,078	99,817	106,130	114,869	118,052	126,815	130,601	142,860	149,462
Texas	1,444,422	1,605,955	1,658,379	1,824,553	2,130,377	2,175,100	2,194,172	2,198,175	2,236,540	2,323,847	2,455,528	2,555,541	2,865,595
Utah	20,919	21,627	24,338	26,368	29,014	30,929	34,592	41,073	48,903	54,669	57,004	55,706	61,401
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Virginia	3,055	3,877	4,324	7,639	14,853	18,630	27,716	35,604	38,884	43,362	48,527	56,052	59,842
Washington	-	-	-	-	-	-	-	-	-	5,224	40,108	53,063	58,650
West Virginia	106,105	112,702	111,802	132,273	139,608	146,153	148,017	138,846	158,006	161,246	159,520	164,347	191,548
Wisconsin	267	323	1,696	15,380	28,382	33,632	36,339	39,287	40,621	48,188	59,592	67,596	82,377
Wyoming	26,351	31,400	31,407	36,637	38,865	36,287	36,070	36,709	39,705	45,552	45,504	46,810	59,119
U.S. Total(c)	4,426,544	4,945,149	5,195,484	6,026,404	7,102,562	7,613,478	7,979,338	8,402,852	9,070,343	9,706,878	10,279,775	10,760,648	11,819,638

See notes and sources at end of table

Section XIII
Table 10a

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	184,118	184,909	194,369	205,763	222,047	229,152	233,098	254,176	287,212	300,892	298,497	285,973	278,467
Alaska	229	557	2,137	4,214	5,781	6,922	10,784	11,889	17,548	42,726	63,726	67,706	74,658
Arizona	135,494	153,674	157,892	157,494	162,570	154,489	162,320	158,766	176,547	195,476	192,996	213,313	227,909
Arkansas	216,516	209,420	224,744	251,129	273,671	281,825	295,078	295,460	321,569	349,990	381,951	333,644	316,375
California	1,311,253	1,405,882	1,476,322	1,554,126	1,737,341	1,757,292	1,884,878	1,911,132	2,046,080	2,048,534	2,126,466	2,149,264	2,185,543
Colorado	207,646	212,611	204,940	207,663	236,325	236,745	233,896	231,508	256,820	272,437	282,328	289,369	309,703
Connecticut	28,453	30,361	32,227	34,809	37,502	40,822	47,695	49,780	53,202	57,465	60,574	61,434	64,008
Delaware	9,035	9,380	14,492	16,378	17,091	17,969	19,045	21,063	24,059	25,863	26,421	26,452	24,088
Dist. of Col.	18,142	16,518	19,338	19,359	20,633	21,210	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Florida	137,875	143,656	157,735	177,496	185,249	188,389	212,278	225,531	273,524	311,885	336,816	336,721	298,977
Georgia	182,087	179,957	192,638	187,600	206,691	211,321	233,291	254,334	283,115	311,543	332,526	342,579	331,143
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho	22,006	23,969	25,806	26,635	30,825	33,889	36,104	34,283	39,479	41,436	46,570	50,096	56,630
Illinois	536,549	574,346	620,309	658,432	731,921	772,092	854,149	948,353	994,404	1,085,392	1,173,878	1,229,277	1,207,289
Indiana	212,851	239,932	272,309	297,897	333,718	357,882	399,905	434,632	454,013	530,981	545,368	566,996	576,948
Iowa	187,138	204,663	213,552	219,005	243,634	247,513	239,478	272,850	297,498	318,341	348,662	344,639	344,516
Kansas	372,302	364,957	380,055	387,880	433,429	464,337	507,704	450,963	496,550	547,227	575,694	606,989	628,109
Kentucky	159,710	161,912	168,138	175,928	185,780	182,828	160,392	192,464	196,807	234,882	248,048	244,360	255,208
Louisiana	947,938	1,036,887	1,007,041	1,070,471	1,139,186	1,155,260	1,258,776	1,394,376	1,521,492	1,762,955	1,840,840	1,883,924	1,939,762
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Maryland	64,923	68,390	76,551	81,774	86,813	93,957	117,208	139,853	149,125	168,944	182,135	188,371	204,922
Massachusetts	77,886	81,768	89,015	98,447	106,699	114,227	116,198	128,217	132,325	136,988	147,307	156,451	160,280
Michigan	368,531	407,732	443,677	463,667	500,628	558,240	619,863	686,095	700,538	776,573	809,124	850,562	864,770
Minnesota	179,827	192,584	214,130	219,047	236,976	248,741	264,488	283,086	311,898	325,687	342,322	351,442	351,408
Mississippi	188,864	190,930	199,733	227,184	252,023	249,845	286,390	282,160	311,891	326,165	360,382	378,321	377,986
Missouri	261,372	274,487	289,482	303,075	325,194	341,144	351,768	360,703	365,546	398,697	429,526	429,105	425,215
Montana	54,569	57,781	63,298	67,337	67,652	70,895	73,829	65,038	62,898	78,283	87,791	88,271	84,322
Nebraska	139,028	143,169	146,043	149,014	164,224	168,032	198,592	188,661	203,345	210,033	222,335	223,674	224,562
Nevada	12,447	15,864	17,528	19,292	23,928	27,679	34,218	35,035	37,029	44,140	52,558	66,511	69,522
New Hampshire	2,852	3,018	3,315	3,596	3,813	4,084	5,567	6,578	6,630	9,196	10,691	12,088	13,267
New Jersey	139,258	153,806	174,210	188,249	200,109	209,757	227,271	251,482	268,495	304,835	322,853	326,768	321,288
New Mexico	266,409	288,455	292,495	275,969	257,173	263,798	261,918	255,590	260,774	251,905	270,103	269,368	287,993
New York	419,460	435,417	474,384	506,942	513,828	544,414	631,808	589,120	639,845	683,688	710,885	716,550	692,730
North Carolina	45,442	50,523	56,373	62,296	68,533	75,745	86,753	97,981	114,809	136,651	151,227	160,567	163,897
North Dakota	17,274	19,625	22,196	23,765	26,232	30,318	40,836	31,858	33,053	32,682	32,717	33,577	36,473
Ohio	698,569	719,674	756,398	797,318	824,111	879,639	944,767	962,821	987,841	1,031,963	1,052,933	1,087,126	1,147,804
Oklahoma	383,042	378,096	485,726	588,245	598,631	524,404	490,032	449,378	496,465	546,191	597,169	611,582	629,757
Oregon	30,861	33,827	37,865	43,350	53,984	56,065	65,093	69,877	79,226	87,854	95,284	100,897	110,360
Pennsylvania	520,788	529,716	550,080	585,426	607,277	629,485	677,111	678,478	717,909	765,941	772,388	802,113	828,961
Rhode Island	11,839	12,780	13,794	14,725	15,465	16,349	16,684	18,493	20,704	22,555	25,093	25,662	22,494
South Carolina	58,532	60,928	70,645	75,099	78,716	86,865	96,437	100,539	127,514	140,826	159,830	156,263	144,120
South Dakota	24,533	25,820	27,413	25,159	27,639	26,974	28,256	27,735	28,815	33,826	36,319	31,832	34,077
Tennessee	155,623	160,667	167,737	169,418	181,476	201,499	226,025	232,212	234,288	247,857	256,148	265,011	277,275
Texas	2,981,167	3,030,914	3,209,968	3,313,837	3,377,093	3,482,821	3,709,715	3,485,246	3,696,396	3,877,376	4,093,357	4,364,728	4,412,636
Utah	75,650	81,879	92,890	103,628	119,625	114,601	106,474	105,052	109,866	119,879	121,937	121,403	124,093
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Virginia	66,181	70,579	77,254	83,011	89,072	95,700	121,702	115,887	121,928	128,748	136,523	144,014	155,658
Washington	64,934	70,343	81,431	86,834	105,789	108,108	116,879	127,230	139,421	144,521	149,992	156,663	170,448
West Virginia	179,963	192,221	188,602	190,264	182,515	179,084	183,109	151,078	183,003	169,841	181,278	178,380	199,141
Wisconsin	90,620	113,679	136,516	152,354	170,202	200,484	224,675	248,033	271,765	316,279	337,822	348,132	320,826
Wyoming	59,635	61,451	67,336	69,879	67,559	70,298	79,174	73,284	78,801	100,071	109,996	115,286	125,834
U.S. Total(c)	12,509,427	13,081,714	13,890,129	14,640,480	15,536,373	16,033,189	17,191,711	17,388,360	18,632,062	20,056,240	21,139,386	21,793,454	22,101,452

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1973	1974	1975	1976	1977	1978	1979	1980	1981 (a)	1982	1983	1984	1985
Alabama	272,068	274,761	264,088	225,979	241,237	237,258	283,435	269,240	271,280	240,957	221,583	231,997	219,455
Alaska	63,073	62,874	84,751	90,121	116,278	145,025	157,236	153,345	121,727	237,881	239,200	257,525	212,765
Arizona	214,323	192,446	156,222	171,275	167,092	175,041	172,738	165,850	182,533	135,031	115,233	121,149	130,776
Arkansas	327,803	290,393	258,220	248,941	229,558	220,699	250,747	273,720	264,787	226,941	206,966	210,021	195,633
California	2,045,627	1,834,413	1,832,849	1,756,611	1,772,041	1,563,172	1,810,381	1,807,731	1,858,178	1,682,718	1,535,031	1,669,705	1,846,078
Colorado	324,007	313,056	307,772	302,284	282,215	267,838	292,272	256,363	211,780	224,991	213,812	229,647	218,942
Connecticut	62,609	66,343	64,011	65,855	64,068	65,191	67,957	72,583	76,829	78,246	74,427	81,139	78,215
Delaware	22,949	20,365	18,603	19,182	15,787	20,626	24,981	29,797	30,643	27,833	34,884	42,962	38,493
Dist. of Col.	(b)	(b)	(b)	(b)	(b)	(b)	(b)	27,868	29,023	29,280	29,340	29,449	28,902
Florida	311,498	289,551	280,095	289,017	302,344	318,344	344,177	316,588	337,557	324,807	306,307	303,309	289,706
Georgia	348,089	330,339	326,559	261,320	264,665	278,272	312,299	315,201	316,613	294,651	295,531	307,323	281,805
Hawaii	-	-	-	-	-	-	-	3,131	2,899	2,804	2,669	2,375	2,483
Idaho	56,045	53,057	60,451	47,156	45,537	44,210	54,237	49,047	44,960	39,971	35,179	38,604	39,194
Illinois	1,150,266	1,149,394	1,095,115	1,175,235	1,167,099	1,174,934	1,142,732	1,089,720	1,061,957	994,179	938,340	1,032,779	962,039
Indiana	542,300	531,872	477,341	425,221	398,268	440,955	504,185	489,254	496,349	467,842	426,770	452,284	432,958
Iowa	364,640	367,595	345,798	311,425	280,246	238,229	291,521	269,581	253,231	237,089	220,517	234,846	225,903
Kansas	604,460	587,013	498,727	515,197	506,910	519,346	584,236	488,338	428,130	400,920	346,204	363,671	355,467
Kentucky	245,472	228,003	207,539	245,967	219,521	212,913	218,689	202,284	199,445	188,536	174,306	189,255	172,510
Louisiana	2,009,859	2,008,364	1,788,588	2,043,705	2,190,848	2,249,172	1,978,382	1,794,007	1,781,716	1,556,052	1,412,983	1,594,346	1,386,365
Maine	(a)	(a)	(a)	(a)	(a)	(a)	(a)	2,268	2,326	2,691	2,424	2,449	2,531
Maryland	201,961	199,331	165,932	176,272	158,838	161,695	201,584	160,244	175,289	157,990	145,628	158,989	150,838
Massachusetts	155,547	155,268	153,967	156,247	160,343	160,503	156,459	182,587	184,575	195,107	191,815	208,758	218,884
Michigan	920,351	936,043	884,184	888,035	741,295	789,594	875,726	865,137	800,873	748,141	696,455	718,103	709,232
Minnesota	360,811	351,644	331,186	320,156	293,381	313,229	334,202	285,846	266,282	262,039	240,777	255,638	257,480
Mississippi	313,992	276,199	230,053	199,122	197,689	203,719	254,366	263,530	242,987	269,131	237,859	268,560	226,663
Missouri	426,807	409,884	369,620	380,258	366,970	358,905	347,257	318,450	283,514	279,449	258,560	264,954	259,900
Montana	90,230	79,909	79,520	74,371	70,956	72,649	69,805	60,724	52,452	52,208	46,249	46,864	47,265
Nebraska	229,632	222,807	218,834	198,634	188,804	163,051	170,013	163,079	138,322	138,238	129,290	134,465	126,135
Nevada	73,072	63,438	61,251	66,797	71,052	64,506	84,433	58,454	73,182	46,627	41,926	42,256	39,200
New Hampshire	13,881	14,697	13,534	13,545	13,609	14,039	14,881	9,474	10,220	10,078	9,655	10,531	10,629
New Jersey	301,566	275,050	244,102	321,535	247,120	228,843	260,579	339,825	390,121	375,660	405,387	418,220	379,230
New Mexico	256,811	257,436	240,260	278,976	229,813	213,698	211,182	221,793	196,212	204,163	178,698	161,850	151,128
New York	682,547	627,493	576,883	595,933	561,698	569,702	623,891	737,443	760,463	775,268	720,398	790,011	762,621
North Carolina	160,871	140,217	114,822	101,175	72,527	81,989	130,884	153,316	152,496	142,129	136,579	143,854	130,825
North Dakota	32,428	35,459	36,826	41,177	37,650	39,067	29,236	22,848	34,445	28,370	26,126	30,153	28,096
Ohio	1,104,156	1,086,651	956,876	1,005,927	847,497	929,593	898,029	896,983	870,341	813,519	747,268	785,297	733,116
Oklahoma	611,738	660,010	668,819	760,110	766,986	770,249	824,908	722,318	670,971	676,762	628,950	652,953	587,407
Oregon	107,961	98,051	109,898	92,500	72,521	86,140	93,707	78,703	75,562	70,824	67,045	78,643	83,002
Pennsylvania	783,297	715,548	653,742	713,518	668,337	673,770	740,818	775,715	784,691	694,639	643,952	676,721	625,667
Rhode Island	20,559	23,781	23,129	20,697	25,631	23,042	27,219	27,630	29,202	27,874	29,044	31,683	29,874
South Carolina	153,147	131,991	122,949	148,989	138,585	117,573	119,319	142,228	141,924	98,100	101,632	108,429	97,469
South Dakota	31,221	32,076	32,534	39,207	36,097	35,423	25,724	24,078	22,056	25,089	23,326	24,592	25,202
Tennessee	293,620	260,171	217,328	212,326	202,135	184,048	226,477	229,661	223,529	207,161	194,610	206,353	190,266
Texas	4,621,378	4,463,488	3,944,377	3,975,307	4,143,023	4,211,432	4,001,355	4,091,099	3,926,687	3,394,404	3,241,515	3,432,624	3,385,715
Utah	123,106	121,015	124,160	146,205	106,315	118,513	126,047	115,092	102,239	117,706	110,185	115,578	115,117
Vermont	(a)	(a)	(a)	(a)	(a)	(a)	(a)	3,991	4,383	4,370	4,359	4,868	4,998
Virginia	152,848	143,650	121,320	123,509	118,020	134,144	134,088	158,479	151,737	150,964	142,944	143,582	139,458
Washington	197,861	182,723	164,334	148,781	142,657	127,280	158,515	128,770	124,942	108,653	107,193	126,287	134,599
West Virginia	186,316	182,370	158,435	150,723	144,535	151,839	148,538	143,047	148,527	130,029	115,813	124,360	117,168
Wisconsin	367,961	381,148	364,801	315,154	349,160	370,726	367,517	351,857	324,611	312,007	299,099	305,076	308,365
Wyoming	108,599	95,746	87,188	86,819	83,623	87,292	93,797	68,975	69,056	90,923	80,871	85,423	82,172
U.S. Total(c)	22,049,363	21,223,133	19,537,593	19,946,496	19,520,581	19,627,478	20,240,761	19,877,293	19,403,858	18,001,055	16,834,914	17,950,524	17,280,943

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

STATE	1986	1987	1988	1989	1990
Alabama	202,923	207,757	236,356	244,810	243,803
Alaska	206,452	249,269	287,648	321,529	342,585
Arizona	101,249	108,976	124,366	145,642	124,773
Arkansas	199,197	169,626	216,836	249,728	232,374
California	1,531,328	1,934,909	1,804,452	1,837,850	1,864,057
Colorado	197,847	210,046	227,584	242,931	239,112
Connecticut	78,903	91,842	88,130	95,052	97,634
Delaware	33,009	36,703	29,258	34,924	39,127
Dist. of Col.	29,586	30,988	32,719	33,422	28,864
Florida	288,541	300,339	293,433	323,591	327,023
Georgia	279,082	303,420	323,030	317,031	311,015
Hawaii	2,463	2,610	2,614	2,694	2,788
Idaho	34,721	37,147	40,736	45,640	45,512
Illinois	924,280	873,436	965,388	992,035	939,502
Indiana	395,181	412,588	456,812	461,993	450,954
Iowa	206,902	200,877	239,127	225,739	218,201
Kansas	312,680	325,866	352,924	340,878	352,780
Kentucky	167,173	171,910	184,078	188,518	184,333
Louisiana	1,438,563	1,500,679	1,445,703	1,515,107	1,571,003
Maine	2,473	2,641	3,197	3,678	4,354
Maryland	152,542	168,553	172,901	189,706	172,267
Massachusetts	186,350	226,820	210,975	249,459	258,214
Michigan	671,323	657,396	749,225	774,438	816,400
Minnesota	244,772	231,750	283,840	299,780	290,587
Mississippi	214,824	208,582	212,779	227,625	253,690
Missouri	241,660	231,941	252,923	261,268	238,709
Montana	41,148	38,786	41,825	45,756	43,169
Nebraska	104,732	102,719	121,979	120,235	111,063
Nevada	33,790	41,333	48,226	63,667	64,876
New Hampshire	10,291	11,970	13,009	13,945	14,274
New Jersey	353,465	421,400	414,279	456,474	427,842
New Mexico	134,198	153,247	173,450	195,736	238,531
New York	728,802	756,559	790,218	845,853	863,090
North Carolina	135,819	148,653	151,990	161,788	161,208
North Dakota	25,471	24,828	28,614	30,152	32,490
Ohio	716,778	714,929	805,309	814,123	746,719
Oklahoma	554,125	596,092	588,796	595,196	604,423
Oregon	70,973	80,249	87,163	106,026	101,829
Pennsylvania	609,953	626,770	668,661	681,909	656,240
Rhode Island	26,354	35,930	30,787	33,938	31,430
South Carolina	98,549	105,661	112,309	116,818	130,453
South Dakota	23,292	21,087	24,227	25,504	25,056
Tennessee	188,000	200,571	214,244	221,444	219,831
Texas	3,185,509	3,304,492	3,531,008	3,625,129	3,603,076
Utah	105,175	98,987	108,954	113,536	116,648
Vermont	5,019	5,181	5,551	6,151	6,766
Virginia	141,024	142,096	163,529	173,725	180,868
Washington	118,360	131,746	146,778	162,779	162,735
West Virginia	112,573	115,091	122,140	130,084	120,453
Wisconsin	278,848	280,184	317,146	330,792	309,080
Wyoming	75,029	81,704	82,363	82,362	92,190
U.S. Total(c)	16,221,296	17,136,938	18,029,588	18,780,192	18,714,003

See notes and sources at end of table

United States Consumption of Natural Gas by State
(Millions of Cubic Feet)

(a) Included with New Hampshire.
(b) Included with Maryland.
(c) Total may not add due to independent rounding.
Note: Consumption includes volumes of natural gas which is distributed as a component of mixed gas.

SOURCE: 1947-1966: U.S. Bureau of Mines, Mineral Yearbooks--Fuels
1967-1990 U.S. Energy Information Administration, Natural Gas Annual

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	0.5	0.7	0.7	2.5	3.1	8.3	8.9	8.2	9.5	17.8	16.4	17.7	15.8	14.9
Alaska	--	--	--	--	--	--	--	--	--	--	--	--	57.7	107.1
Arkansas	885.3	896.9	869.4	902.7	926.3	979.2	1,204.7	1,159.1	1,158.0	1,165.2	1,276.1	1,380.8	1,415.1	1,451.8
California	10,109.2	10,137.2	9,937.4	9,707.4	9,430.9	9,289.3	9,109.6	8,977.6	8,844.7	8,703.7	8,904.3	8,917.8	8,546.8	8,795.9
Colorado	330.1	1,341.9	1,220.4	1,109.4	1,132.3	1,157.9	1,854.2	1,922.4	2,241.3	2,409.6	2,367.8	2,336.5	2,482.6	2,031.7
Florida	0.7	1.2	2.4	2.2	2.3	3.0	2.5	2.0	3.2	2.7	2.2	2.8	2.4	1.8
Illinois	219.9	226.6	231.9	228.6	225.9	210.5	230.0	252.4	232.3	218.5	165.5	169.6	174.2	172.2
Indiana	12.9	21.5	25.1	31.0	30.6	35.5	35.6	35.9	32.9	33.6	30.8	30.4	34.9	33.9
Kansas	14,477.9	14,329.6	14,013.0	13,715.9	13,384.4	14,116.5	15,701.9	15,672.7	16,204.6	17,470.9	19,191.2	20,124.0	19,872.9	19,513.7
Kentucky	1,372.0	1,370.7	1,342.1	1,323.4	1,318.4	1,306.4	1,294.5	1,279.6	1,255.4	1,238.8	1,218.4	1,208.7	1,153.8	1,137.6
Louisiana	23,353.7	23,847.3	26,542.9	28,378.3	28,847.5	31,280.8	34,271.8	36,600.1	42,205.1	44,809.3	51,156.6	54,812.4	59,528.9	63,041.9
Michigan	167.6	182.0	213.7	194.0	201.9	253.2	274.0	328.3	324.1	359.8	441.6	495.4	512.6	582.6
Mississippi	2,439.4	2,490.7	2,515.2	2,505.5	2,426.7	2,351.2	2,555.2	2,757.6	2,594.2	2,390.3	2,285.3	2,584.3	2,473.0	2,528.5
Montana	696.7	848.0	799.1	793.0	823.6	823.1	759.9	719.8	715.8	692.6	666.6	678.3	661.9	622.8
Nebraska	0.6	1.6	8.0	43.9	95.3	93.4	181.1	191.9	202.3	224.2	188.3	142.5	132.0	117.2
New Mexico	5,957.8	5,575.9	6,207.1	6,952.7	11,527.0	13,962.6	17,427.0	17,147.0	18,484.0	23,345.2	22,137.1	21,065.0	17,815.5	15,519.0
New York	64.5	67.2	66.3	64.4	66.4	68.3	70.6	69.0	75.3	84.8	92.9	95.9	105.9	95.7
North Dakota	--	--	--	6.3	69.6	97.8	169.0	163.1	279.2	395.3	739.4	1,118.4	1,200.0	1,144.8
Ohio	607.9	626.0	649.0	655.3	685.4	727.5	751.9	770.5	805.5	849.0	896.9	813.6	744.7	761.4
Oklahoma	11,289.2	11,270.9	11,562.8	11,571.1	11,740.2	11,700.9	12,162.0	12,328.8	13,133.0	13,700.2	14,182.0	15,124.2	16,560.9	17,217.4
Pennsylvania	480.4	614.1	618.3	623.8	616.1	705.7	747.8	728.2	750.3	772.0	849.0	865.3	1,046.3	1,186.0
Texas	89,536.6	95,188.8	98,631.8	101,847.9	105,079.4	105,158.5	105,951.1	104,558.1	107,699.4	112,116.5	112,470.4	114,420.9	119,821.5	118,840.4
Utah	66.3	69.4	65.2	84.3	95.3	281.9	1,107.0	385.3	418.6	616.4	854.6	1,052.3	1,257.4	1,517.9
Virginia	--	--	--	--	9.9	27.9	28.4	31.5	34.6	35.4	37.3	38.2	38.4	33.1
West Virginia	1,771.1	1,727.7	1,705.9	1,641.7	1,662.4	1,651.1	1,645.0	1,598.6	1,556.4	1,553.3	1,552.5	1,549.2	1,584.9	1,821.2
Wyoming	1,185.3	2,082.4	2,161.9	2,183.1	2,327.6	2,308.5	2,724.8	2,839.6	3,178.7	3,218.4	3,438.7	3,630.0	3,826.2	3,913.4
Miscellaneous(a)	0.1	8.0	11.9	16.4	30.3	31.4	30.5	33.6	44.1	59.9	68.3	87.4	105.2	122.7
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL U.S.(b)	165,025.8	172,925.1	179,401.7	184,584.7	192,758.9	198,631.6	210,298.8	210,560.9	222,482.5	236,483.2	245,230.1	252,761.8	261,170.4	262,326.3

See notes and sources at end of table

Section XIII
Table 11a

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	13.3	12.8	19.4	19.6	24.0	14.4	9.1	16.1	56.7	162.0	180.5	245.7	327.4	507.4
Alaska	921.8	1,634.3	1,690.7	1,831.4	1,985.3	2,946.9	3,635.3	5,252.3	5,202.1	31,130.8	31,365.4	31,455.4	31,642.6	31,866.6
Arkansas	1,469.0	1,643.7	1,792.6	2,100.1	2,269.0	2,599.6	2,811.3	2,715.1	2,632.8	2,580.7	2,430.1	2,455.9	2,269.4	2,113.4
California	9,054.2	9,121.4	8,865.7	9,053.7	8,832.4	8,474.4	7,723.8	7,316.3	6,870.9	6,299.8	5,729.5	5,328.9	5,199.8	5,194.6
Colorado	2,158.9	2,204.8	1,876.1	1,729.3	1,717.6	1,651.4	1,769.3	1,660.1	1,596.3	1,628.8	1,818.3	1,655.2	1,868.3	1,881.7
Florida	1.4	0.5	0.6	1.0	4.0	5.4	1.1	0.9	4.7	61.1	178.7	180.6	148.9	308.9
Illinois	163.3	158.2	168.6	179.5	209.7	236.5	258.6	297.9	337.8	415.4	499.0	545.4	380.5	399.4
Indiana	32.1	49.6	60.2	71.3	72.4	71.2	74.8	75.5	77.6	82.7	86.7	87.3	66.7	64.1
Kansas	19,085.8	18,567.2	17,994.2	17,278.1	16,596.4	15,923.3	15,283.7	14,511.2	14,125.1	13,325.1	12,535.2	11,938.7	11,722.4	11,704.7
Kentucky	1,120.7	1,108.9	1,085.2	1,094.4	1,092.2	1,017.0	954.0	923.3	920.5	977.8	956.3	938.1	864.9	844.0
Louisiana	65,670.1	71,544.1	75,365.0	79,076.3	82,811.2	83,684.1	86,290.0	88,015.6	85,056.6	82,956.7	78,625.8	74,971.3	69,151.6	64,052.4
Michigan	663.0	647.0	722.8	774.3	745.8	773.1	760.9	757.4	751.0	939.7	1,016.5	1,296.8	1,548.5	1,458.3
Mississippi	2,832.5	2,735.8	2,481.6	2,355.8	1,973.4	1,668.9	1,597.0	1,434.1	1,410.9	1,333.9	1,117.4	1,104.3	1,178.2	1,079.4
Montana	593.1	600.2	598.1	590.3	595.9	620.4	837.7	911.5	1,110.2	1,099.9	1,024.6	1,064.0	1,092.4	901.3
Nebraska	103.7	100.2	100.0	93.4	79.6	72.8	63.8	56.8	56.6	58.2	59.4	50.3	48.8	54.6
New Mexico	14,677.6	14,112.7	15,037.8	15,354.4	15,374.6	14,753.1	15,092.5	15,143.2	14,281.5	13,290.0	13,068.0	12,335.6	12,488.4	11,944.9
New York	127.6	131.2	132.3	133.5	135.7	120.9	121.1	124.1	120.5	126.0	139.1	139.2	136.8	165.5
North Dakota	943.4	962.7	1,119.6	1,110.6	1,121.2	1,024.5	882.1	866.8	648.6	567.4	503.7	441.6	448.2	432.7
Ohio	729.9	727.9	748.2	709.4	754.8	755.2	762.7	783.9	809.3	993.5	1,068.4	1,146.7	1,179.4	1,308.2
Oklahoma	17,256.7	18,259.0	19,138.8	19,757.2	20,357.4	20,122.2	19,403.8	18,368.3	17,593.2	16,954.3	15,712.8	14,492.0	14,098.7	13,390.3
Pennsylvania	1,162.5	1,175.1	1,214.5	1,243.6	1,257.0	1,350.6	1,392.2	1,345.0	1,303.9	1,377.5	1,395.9	1,406.9	1,494.4	1,492.1
Texas	119,187.9	118,854.8	117,809.4	118,855.1	120,616.8	123,609.3	125,415.1	119,001.1	112,392.6	106,353.0	101,472.1	95,042.0	84,936.5	78,540.7
Utah	2,019.1	1,786.4	1,638.3	1,519.4	1,438.8	1,372.2	1,226.5	1,156.6	1,090.8	1,065.2	982.0	1,022.1	1,024.7	1,031.4
Virginia	33.9	33.0	31.3	32.2	32.5	37.6	37.8	34.3	31.4	32.5	31.1	35.9	37.3	44.7
West Virginia	2,008.0	2,026.0	2,311.2	2,347.9	2,494.0	2,622.2	2,580.0	2,585.6	2,447.3	2,436.4	2,411.8	2,346.0	2,319.8	2,265.6
Wyoming	4,104.6	3,931.2	3,988.5	3,768.6	3,703.3	3,594.0	3,685.5	3,768.5	3,937.0	4,243.3	4,131.5	4,088.7	4,109.5	3,917.4
Miscellaneous(a)	139.6	150.0	160.2	171.2	174.0	211.6	238.3	228.4	242.7	255.0	266.0	270.0	165.9	168.1
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL U.S.(b)	266,273.6	272,278.9	276,151.2	281,251.5	286,468.9	289,332.8	292,907.7	287,349.9	275,108.8	290,746.4	278,805.6	266,084.8	249,950.2	237,132.5

See notes and sources at end of table

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Alabama	771.0	707.2	530.0	514.0	652.0	636.0	648.0	643.0	785.0	961.0	821.0	951.0	842.0
Alaska	32,050.7	31,929.6	32,243.0	32,045.0	32,259.0	33,382.0	33,037.0	34,990.0	34,283.0	34,476.0	33,847.0	32,664.0	33,225.0
Arkansas	1,993.3	1,728.3	1,660.0	1,681.0	1,703.0	1,774.0	1,801.0	1,958.0	2,069.0	2,227.0	2,019.0	1,992.0	1,997.0
California	5,484.0	5,342.0	4,737.0	4,947.0	5,022.0	5,414.0	5,617.0	5,552.0	5,781.0	5,554.0	4,325.0 (d)	3,928.0	3,740.0
Colorado	1,893.0	1,887.8	2,512.0	2,765.0	2,608.0	2,922.0	2,961.0	3,314.0	3,148.0	2,943.0	2,881.0	3,027.0	2,942.0
Florida	266.9	257.5	151.0	119.0	77.0	84.0	69.0	64.0	49.0	65.0	55.0	49.0	49.0
Illinois	380.8	376.9	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Indiana	59.8	45.4	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Kansas	12,661.2	11,950.6	11,457.0	10,992.0	10,243.0	9,508.0	9,860.0	9,724.0	9,553.0	9,387.0	9,337.0	10,509.0	10,494.0
Kentucky	812.6	771.5	451.0	545.0	468.0	508.0	530.0	551.0	554.0	613.0	766.0	841.0	909.0
Louisiana	61,309.4	57,501.8	57,010.0	55,725.0	50,042.0	47,325.0	47,377.0	44,916.0	42,561.0	41,399.0	14,038.0 (d)	12,930.0	12,430.0
Michigan	1,606.7	1,598.1	1,386.0	1,422.0	1,204.0	1,406.0	1,118.0	1,084.0	1,219.0	1,112.0	985.0	1,139.0	1,451.0
Mississippi	1,207.6	1,061.3	1,437.0	1,635.0	1,504.0	1,769.0	2,035.0	1,796.0	1,596.0	1,491.0	1,360.0	1,300.0	1,220.0
Montana	930.0	1,106.3	887.0	926.0	825.0	1,287.0	1,321.0	847.0	896.0	802.0	857.0	803.0	780.0
Nebraska	55.8	59.2	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
New Mexico	11,759.3	11,916.6	12,000.0	12,686.0	13,724.0	13,287.0	13,870.0	12,418.0	11,676.0	11,364.0	10,900.0	11,808.0	11,620.0
New York	215.8	236.0	165.0	193.0	211.0	208.0	264.0	229.0	295.0	389.0	369.0	457.0	410.0
North Dakota	416.8	405.9	361.0	374.0	433.0	537.0	581.0	629.0	600.0	566.0	569.0	541.0	508.0
Ohio	1,354.0	1,350.6	495.0	684.0	1,479.0	1,699.0	965.0	1,141.0	2,030.0	1,541.0	1,331.0	1,420.0	1,069.0
Oklahoma	13,083.0	12,435.3	13,889.0	14,417.0	13,816.0	13,138.0	14,699.0	16,207.0	16,211.0	16,126.0	16,040.0	16,685.0	16,711.0
Pennsylvania	1,682.5	1,651.9	769.0	899.0	1,515.0	951.0	1,264.0	1,429.0	1,882.0	1,575.0	1,617.0	1,560.0	1,647.0
Texas	71,036.9	64,651.4	56,422.0	55,583.0	53,021.0	50,287.0	50,469.0	49,757.0	50,052.0	49,883.0	41,775.0 (d)	40,574.0	38,711.0
Utah	917.4	829.9	877.0	925.0	948.0	1,201.0	1,912.0	2,161.0	2,333.0	2,080.0	1,999.0	1,895.0	1,947.0
Virginia	47.5	56.4	(c)	(c)	(c)	(c)	(c)	122.0	175.0	216.0	235.0	253.0	248.0
West Virginia	2,311.3	2,273.3	1,567.0	1,634.0	1,558.0	2,422.0	1,834.0	2,148.0	2,194.0	2,136.0	2,058.0	2,148.0	2,242.0
Wyoming	3,703.2	3,704.4	6,305.0	7,211.0	7,526.0	9,100.0	9,307.0	9,758.0	10,227.0	10,482.0	10,617.0	9,756.0	10,023.0
Miscellaneous(a)	189.4	191.0	102.0	109.0	153.0	176.0	191.0	69.0	78.0	75.0	76.0	133.0	65.0
Federal Offshore(e)	--	--	--	--	--	--	--	--	--	--	34,492.0	34223	31,931.0
TOTAL U.S.(b)	228,200.2	216,026.1	207,413.0	208,033.0	200,997.0	199,021.0	201,730.0	201,512.0	200,247.0	197,463.0	193,369.0	191,586.0	187,211.0

See notes and sources at end of table

Section XIII
Table 11c

United States Proved Reserves of Natural Gas by State
(Billions of Cubic Feet)

State	1988	1989	1990
Alabama	809.0	819.0	4,125.0 (d)
Alaska	9,078.0 (f)	8,939.0	9,300.0
Arkansas	1,986.0	1,772.0	1,731.0
California	3,519.0	3,374.0	3,185.0
Colorado	3,535.0	4,274.0	4,555.0
Florida	51.0	46.0	45.0
Illinois	(c)	(c)	(c)
Indiana	(c)	(c)	(c)
Kansas	10,104.0	10,091.0	9,614.0
Kentucky	923.0	992.0	1,016.0
Louisiana	12,224.0	12,516.0	11,728.0
Michigan	1,323.0	1,342.0	1,243.0
Mississippi	1,143.0	1,104.0	1,126.0
Montana	819.0	867.0	899.0
Nebraska	(c)	(c)	(c)
New Mexico	17,166.0	15,434.0	17,260.0
New York	351.0	368.0	354.0
North Dakota	541.0	561.0	586.0
Ohio	1,229.0	1,275.0	1,214.0
Oklahoma	16,495.0	15,916.0	16,151.0
Pennsylvania	2,072.0	1,642.0	1,720.0
Texas	38,167.0	38,381.0	38,192.0
Utah	1,298.0	1,507.0	1,510.0
Virginia	230.0	217.0	138.0
West Virginia	2,306.0	2,201.0	2,207.0
Wyoming	10,308.0	10,744.0	9,944.0
Miscellaneous(a)	83.0	83.0	70.0
Federal Offshore(e)	32,264.0	32,651.0	31,433.0
TOTAL U.S.(b)	168,024.0	167,116.0	169,346.0

(a) Includes Arizona, Iowa, Maryland, Minnesota, Missouri, Oregon, South Dakota, Tennessee and Washington.

(b) Totals may not add due to independent rounding.

(c) Included in Miscellaneous.

(d) Beginning in 1985, figures for California, Louisiana, and Texas include offshore reserves in state waters only.

(e) Federal Offshore is a designation begun in the 1986 reported data. This number includes all state offshore reserves in federal waters, which accounts for the large decline in certain states beginning in 1985.

(f) An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988. It recognizes some 24.6 trillion cubic feet of downward revisions reported during the last few years by operators because of economic and market conditions. EIA in previous years carried these reserves in the proved category.

SOURCE: 1947-1976: API, AGA and CPA, Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada, Annuals.
1977-1990: U.S. Energy Information Administration, U.S. Crude Oil, Natural Gas And Natural Gas Liquids Reserves, Annuals.

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1960		1970		1980		1983	
Company	Production	Company	Production	Company	Production	Company	Production
Exxon(b)	574,328	Exxon(b)	2,003,120	Exxon	1,231,145	Exxon	855,925
Standard of Ind.	573,050	Texaco(b)	1,399,410	Texaco(b)	955,570	Standard of Ind.	651,525
Phillips	501,853	Standard of Ind.	1,114,710	Standard of Ind.	820,520	Texaco(b)	582,540
Texaco(b)	499,971	Gulf	1,006,305	Mobil	711,750	Shell	539,105
Mobil(c)	398,945	Shell	930,020	Gulf(e)	660,030	Mobil	467,930
Shell	389,384	Mobil	813,585	Shell	649,700	Gulf(e)	465,740
Gulf(b)	365,000	Atlantic Richfield	728,905	Atlantic Richfield(b)	447,855	Atlantic Richfiel	453,159
Cities Service	323,564	Phillips	580,715	Standard of Calif.(b)	444,935	Standard of Calif.	421,968
Sun	273,694	Union	567,247	Union	425,225	Tenneco	357,149
Standard of Calif.	249,126	Standard of Calif.	537,645	Tenneco	406,789	Unocal (Union)(e)	298,351
Superiod(c)	233,999	Sun(d)	525,965	Sun(b)	382,520	Phillips	291,635
United Gas Corp.(d)	204,000	Getty	439,832	Phillips	344,195	Sun	270,830
Atlantic Richfield	186,040	Cities Service	368,614	Getty	312,171	Getty	266,774
Continental	161,477	Superior	338,836	Cities Service(e)	296,125	Occidental(e)	239,440
Sinclair	155,941	Continental	308,060	Conoco	283,970	Superior	234,732
Sunray-DX(d)	151,663	Tenneco	291,529	El Paso	283,000	DuPont(e)	213,160
Tidewater(d)	139,517	El Paso	219,730	Superior	283,000	El Paso	153,000
Union	124,963	Pennzoil-United	215,715	Pennzoil	213,825	Texas Oil & Gas	149,507
Skelly(d)	124,493	Marathon	171,597	Marathon	164,159	U.S. Steel	129,515
Pure(d)	114,614	Amerada Hess	160,892	Columbia(f)	156,698	Pennzoil	118,051
U.S. TOTAL	12,771,038	U.S. TOTAL	21,920,642	U.S. TOTAL	19,602,000	U.S. TOTAL	16,033,000

See notes and sources at end of table

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1984		1985		1986		1987	
Company	Production	Company	Production	Company	Production	Company	Production
Texaco	964,726 (2)	Chevron	765,770	Chevron	718,320	Chevron	708,465
Exxon	907,025	Exxon	761,025	Exxon	700,435	Mobil	656,635
Chevron(h)	903,302	Texaco(g)	755,915	Shell	653,715	Texaco	644,590
Mobil(i)	750,440	Amoco (Std. of Ind.)	682,185	Amoco	631,815	Exxon	619,770
Standard of Ind.	693,500	Mobil	603,345	Texaco	613,930	Amoco	617,000
Shell	589,475	Shell	601,885	Mobil	546,770	Shell	558,085
Atlantic Richfield	501,462	Atlantic Richfield	434,355	ARCO	454,060	ARCO	464,280
Tenneco	433,601	Tenneco	375,692	Tenneco	364,677	Tenneco	368,377
Phillips(j)	372,994	Phillips	319,740	USX (U.S. Steel)(o)	308,042	Phillips(k)	281,780
Unocal	304,666	Unocal	287,255	Phillips	299,300	Occidental(k)	281,415
Sun	286,160	Sun	239,440	Unocal	248,930	USX	274,480
Occidental(k)	248,565	DuPont(k)	230,680	DuPont	248,000	Unocal	271,925
DuPont(k)	247,105	Occidental(k)	219,365	Occidental	244,185	Sun	230,315
Texas Oil & Gas	177,173	Texas Oil and Gas	198,475	Sun	219,000	DuPont(k)	219,365
U.S. Steel(l)	150,937	Consolidated Oil and Gas	150,100	Burlington Northern(p)	145,000	Burlington Northern	151,000
Pennzoil	144,329	Pennzoil	138,438	Enron	127,276	Union Pacific	124,830
Consolidated Natural Gas	126,600	U.S. Steel	137,712	Union Pacific	122,700	Enron	120,450
Columbia(m)	125,462	Union Pacific	115,194	Pennzoil	116,760	Pennzoil	115,052
Union Pacific	121,363	Enron Corp.(n)	109,309	Mesa(q)	112,367	Consolidated Natural Gas	109,562
El Paso	107,000	El Paso	107,000	Consolidated Natural Gas	112,000	Mesa	103,797
U.S. TOTAL	17,231,000	U.S. TOTAL	16,428,000	U.S. TOTAL	16,036,000	U.S. TOTAL	16,334,000

See notes and sources at end of table

Section XIII
Table 12b

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

1988		1989	
Company	Production	Company	Production
Texaco	847,000	Chevron	880,745
Chevron	738,760	Amoco	756,280
Amoco(r)	695,325	Texaco	729,000
Exxon	658,825	Exxon	666,855
Mobil	658,000	Mobil	644,000
Shell	579,620	ARCO	558,085
ARCO	506,985	Shell	532,535
USX	312,440	USX	333,245
Phillips(k)	310,615	Phillips(k)	319,010
Occidental(k)	281,050	Unocal	277,035
Unocal	261,705	DuPont(k)	273,750
Oryx Energy (Sun)(s)	246,010	Oryx Energy	269,735
DuPont	237,250	Occidental(k)	266,450
Union Pacific	144,540	Union Pacific	153,300
Consolidated Natural Gas(t)	136,000	Consolidated Natural Gas(t)	147,000
Anadarko	128,537	Anadarko	141,147
Pennzoil	126,838	Mesa	137,167
Enron	121,925	Pennzoil	134,781
Mesa	116,414	Enron	123,319
Amerada Hess	103,337	Amerada Hess	122,316
U.S. TOTAL	16,992,000	U.S. TOTAL	17,115,000

See notes and sources at end of table

Section XIII
Table 12c

Twenty Leading Companies
U.S. Natural Gas Production(a)
(Millions of Cubic Feet)

(a) Reported on a "dry" gas basis unless otherwise noted.
(b) Natural gas sales.
(c) Gross.
(d) Includes Canadian production.
(e) Volume before extraction of natural gas liquids.
(f) Includes synthetic gas.
(g) Sales. Texaco's figure also includes 100% of Getty Oil Company's estimated annualized production. (Texaco acquired Getty on March 1, 1984)
(h) Standard Oil of California acquired the Gulf Corporation on June 15, 1984, and on July 1, 1984, Standard changed its name to Chevron. Chevron's figure includes 100% of Gulf's annualized production before the extraction of natural gas liquids.
(i) Mobil acquired Superior on September 23, 1984. Mobil's figure includes 100% of Superior's estimated annualized production.
(j) Phillips acquired Aminoil from R.J. Reynolds on October 26, 1984. Phillips' figure includes 100% of Aminoil's estimated annualized production.
(k) Volume before extraction of natural gas liquids.
(l) U.S. Steel acquired the U.S. assets of Husky Oil Ltd. on May 31, 1984. U.S. Steel's figure includes 100% of Husky's estimated annualized production of its U.S. assets.
(m) Includes synthetic gas and liquified petroleum gas.
(n) Formerly HNG/InterNorth, Inc. On June 1, 1985 InterNorth Inc. acquired the Houston Natural Gas Corporation and changed its name to reflect the acquisition. By April 1986 the corporation changed its name to Enron Corporation. Enron's figure includes Houston Natural Gas's 1985 full-year production. Enron's figure also includes cost and non-cost of service production.
(o) On February 11, 1986 a subsidiary of U.S. Steel merged with Texas Oil and Gas Corp. (TXO). On July 8,1986, in recognition of its major diversification into oil and gas businesses, U.S. Steel changed its name to USX Corporation.
(p) On December 13, 1985 Southland Royalty became a wholly-owned subsidiary of Burlington Northern Inc. (BNI). BNI also is the parent company of El Paso Natural Gas Company.
(q) On June 30, 1986, Mesa acquired the assets of Pioneer Corporation. Mesa's figure includes 100% of Pioneer's estimated annualized production.
(r) Figure includes certain oil and gas prpoperties acquired from Tenneco in 1988.
(s) On November 1, 1988 Oryx Energy Company acquired Sun Company's domestic oil and gas exploration and production business. Oryx's figure includes 201,054 million cubic feet of natural gas produced by the Sun Company during the first 10 months of 1988.
(t) Includes cost and non-cost of service production.

SOURCE: API, Market Shares and Individual Company Data for U.S. Energy Markets: 1950-1989, Discussion Paper #014R

Average Price of Natural Gas Delivered to Residential Consumers by State
(In Dollars per Thousand Cubic Feet)

State	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Alabama	1.13	1.10	1.09	1.13	1.19	1.27	1.37	1.55	1.57	1.99	2.31	2.71
Alaska	1.51	1.52	1.52	1.52	1.53	1.55	1.57	1.58	1.63	1.65	1.71	1.76
Arizona	0.96	0.97	1.04	1.20	1.23	1.24	1.37	1.50	1.53	2.12	2.61	3.07
Arkansas	0.72	0.70	0.71	0.75	0.79	0.83	0.87	1.06	1.12	1.23	1.98	1.96
California	0.93	0.93	0.93	0.99	1.03	1.08	1.16	1.38	1.57	1.77	1.89	1.99
Colorado	0.66	0.68	0.69	0.72	0.75	0.78	0.83	1.00	1.16	1.27	1.62	1.94
Connecticut	1.83	1.81	1.82	1.91	2.07	2.09	2.25	2.79	3.29	3.41	4.34	4.47
Delaware	1.60	1.59	1.50	1.58	1.63	1.71	1.85	2.11	2.43	2.61	3.25	4.06
District of Columbia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Florida	2.26	2.59	2.48	2.51	2.54	2.66	2.70	2.85	2.74	2.81	3.53	3.54
Georgia	1.03	1.02	1.02	1.05	1.13	1.26	1.30	1.40	1.50	1.69	1.97	2.33
Hawaii	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Idaho	1.29	1.36	1.37	1.39	1.49	1.51	1.52	1.80	2.18	2.24	2.86	3.41
Illinois	1.02	1.02	1.00	1.05	1.07	1.13	1.21	1.35	1.61	1.90	2.21	2.50
Indiana	0.98	0.94	0.94	1.01	1.08	1.14	1.20	1.28	1.45	1.69	2.02	2.17
Iowa	0.93	0.93	0.94	0.97	1.03	1.11	1.17	1.22	1.43	1.61	1.93	2.25
Kansas	0.59	0.63	0.64	0.68	0.72	0.74	0.75	0.90	1.03	1.48	1.73	1.77
Kentucky	0.84	0.79	0.80	0.83	0.88	0.93	0.99	1.10	1.23	1.32	1.79	1.94
Louisiana	0.75	0.75	0.75	0.77	0.84	0.91	0.97	1.12	1.37	1.57	1.97	2.47
Maine	1.96 (b)	2.05 (b)	1.97 (b)	1.99 (b)	2.05 (b)	2.14 (b)	2.17 (b)	2.38 (b)	2.65 (b)	2.68 (b)	3.62 (b)	3.57 (b)
Maryland	1.44 (c)	1.42 (c)	1.42 (c)	1.45 (c)	1.51 (c)	1.65 (c)	1.68 (c)	0.50 (c)	2.33 (c)	2.57 (c)	3.18 (c)	3.40 (c)
Massachusetts	1.88	1.86	1.86	1.92	2.12	2.29	2.40	2.71	3.15	3.64	3.95	4.17
Michigan	0.98	0.98	0.98	1.01	1.06	1.10	1.18	1.37	1.62	1.90	2.22	2.31
Minnesota	1.03	1.03	1.07	1.10	1.18	1.23	1.30	1.41	1.57	1.74	2.13	2.41
Mississippi	0.88	0.97	0.88	0.88	0.94	1.08	1.09	1.23	1.41	1.71	2.11	2.40
Missouri	0.84	0.86	0.89	0.96	1.02	1.10	1.16	1.27	1.49	1.70	2.18	2.29
Montana	0.80	0.82	0.88	0.91	0.93	0.97	1.09	1.12	1.30	1.36	1.82	1.89
Nebraska	0.79	0.80	0.83	0.85	0.92	0.99	1.04	1.14	1.28	1.37	1.80	1.97
Nevada	1.42	1.51	1.49	1.51	1.51	1.52	1.54	1.72	1.95	2.04	2.78	2.80
New Hampshire	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
New Jersey	1.91	1.91	1.85	1.89	1.95	2.02	2.08	2.25	2.69	3.14	3.42	3.53
New Mexico	0.91	0.89	0.91	0.93	0.95	0.97	1.00	1.24	1.33	1.36	2.11	2.50
New York	1.42	1.38	1.37	1.40	1.50	1.62	1.74	2.00	2.54	2.87	3.28	3.68
North Carolina	1.31	1.29	1.25	1.30	1.34	1.41	1.51	1.69	2.02	2.13	2.81	3.00
North Dakota	0.94	0.93	0.95	1.02	1.10	1.13	1.14	1.19	1.51	1.79	2.11	2.33
Ohio	0.86	0.85	0.87	0.90	0.98	1.05	1.11	1.24	1.50	1.77	2.21	2.43
Oklahoma	0.78	0.77	0.82	0.84	0.87	0.90	0.92	1.05	1.22	1.50	1.78	1.93
Oregon	1.57	1.54	1.49	1.51	1.60	1.68	1.76	2.00	2.20	2.68	3.43	3.83
Pennsylvania	1.15	1.15	1.18	1.24	1.28	1.36	1.48	1.66	1.93	2.14	2.51	2.63
Rhode Island	1.81	1.78	1.70	1.83	1.93	2.05	2.37	2.55	3.09	3.36	4.23	4.18
South Carolina	1.40	1.32	1.33	1.35	1.47	1.62	1.65	1.97	2.13	2.29	2.87	3.00
South Dakota	0.99	0.99	1.01	1.04	1.10	1.13	1.19	1.29	1.40	1.50	1.83	2.10
Tennessee	0.90	0.88	0.89	0.91	0.98	1.02	1.08	1.17	1.29	1.61	2.09	2.14
Texas	0.87	0.87	0.90	0.92	0.99	1.01	1.04	1.17	1.52	1.99	2.39	2.73
Utah	0.68	0.74	0.83	0.85	0.87	0.90	0.99	1.07	1.22	1.38	1.64	1.93
Vermont	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Virginia	1.46	1.44	1.43	1.49	1.52	1.60	1.68	1.87	2.24	2.54	3.03	3.27
Washington	1.48	1.43	1.36	1.40	1.43	1.47	1.55	1.77	2.27	2.70	3.12	3.48
West Virginia	0.84	0.87	0.88	0.89	0.94	0.96	0.97	1.10	1.45	1.67	2.55	2.61
Wisconsin	1.02	1.10	1.16	1.25	1.26	1.34	1.43	1.50	1.75	2.11	2.50	2.68
Wyoming	0.66	0.67	0.68	0.68	0.71	0.74	0.77	0.85	1.02	1.18	1.59	1.91
Total	1.04	1.04	1.05	1.09	1.15	1.21	1.29	1.43	1.71	1.98	2.35	2.56

See notes and sources at end of table

Average Price of Natural Gas Delivered to Residential Consumers by State
(In Dollars per Thousand Cubic Feet)

State	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Alabama	3.65	4.04	4.77	5.58	6.22	6.26	6.41	6.52	6.64	6.51	6.27	6.57
Alaska	1.71	1.73	1.95	1.79	2.33	2.49	2.81	3.25	3.21	3.46	3.63	3.79
Arizona	3.50	4.05	4.63	5.92	6.63	7.16	7.00	6.28	6.11	6.99	6.94	6.85
Arkansas	1.57	2.47	3.04	3.82	4.40	4.37	4.43	4.83	4.63	4.81	4.85	5.10
California	2.47	3.51	3.74	4.43	5.41	5.84	5.72	5.14	5.26	5.64	5.59	5.78
Colorado	2.48	3.23	4.17	4.89	5.51	5.24	5.10	5.01	4.74	4.42	4.63	4.57
Connecticut	4.74	5.84	6.85	8.51	9.70	8.80	9.15	8.83	8.21	7.87	8.25	8.58
Delaware	4.03	4.30	5.53	6.04	6.59	6.67	7.06	7.09	6.32	6.00	6.42	6.13
District of Columbia	(a)	4.57	5.50	6.64	8.10	8.05	7.91	7.52	7.09	6.96	7.44	7.18
Florida	3.70	4.80	5.31	6.59	6.85	7.18	7.46	7.20	7.48	7.49	8.06	8.47
Georgia	2.88	3.67	4.34	5.33	6.10	6.41	6.60	6.63	6.34	6.22	6.24	6.82
Hawaii	NA	12.99	15.57	15.70	16.46	17.36	18.12	16.09	15.90	15.69	15.66	16.45
Idaho	3.73	4.97	5.57	6.92	7.38	6.89	6.89	6.02	5.50	5.49	5.05	5.05
Illinois	3.01	3.61	4.05	4.73	5.46	5.37	5.55	5.07	4.81	4.60	4.92	5.06
Indiana	2.65	3.15	3.60	4.38	5.49	5.69	5.54	5.52	4.95	5.16	5.51	5.38
Iowa	2.68	3.19	3.89	4.69	5.52	5.56	5.39	5.12	4.75	4.79	4.70	4.99
Kansas	1.95	2.36	3.03	4.06	4.68	4.49	4.12	3.89	4.09	4.02	4.17	4.48
Kentucky	2.35	3.03	3.49	4.46	5.30	5.20	5.31	4.93	4.53	4.48	4.68	4.93
Louisiana	2.71	3.40	4.15	5.32	6.12	5.96	5.67	5.77	5.56	5.74	5.97	6.09
Maine	4.10 (b)	6.34	7.45	8.63	9.82	9.58	9.07	8.51	8.04	7.26	7.16	7.61
Maryland	3.76 (c)	4.46	5.07	6.12	7.42	7.44	7.25	6.88	6.37	5.90	6.30	6.45
Massachusetts	4.55	5.42	6.37	7.54	8.32	7.83	7.83	7.41	6.64	6.47	7.16	7.82
Michigan	2.64	3.19	3.84	4.79	5.84	5.97	6.29	5.74	5.46	5.34	5.19	5.02
Minnesota	2.86	3.22	4.09	4.96	5.90	6.00	5.80	5.28	4.58	4.64	4.57	4.63
Mississippi	2.83	3.47	3.99	4.93	5.88	5.52	5.46	5.59	6.10	5.85	5.10	5.33
Missouri	2.75	3.28	4.02	5.20	6.12	5.85	5.49	5.03	4.76	4.76	4.84	5.21
Montana	2.21	3.05	3.75	4.45	4.62	4.86	4.81	4.45	4.41	4.30	4.37	4.59
Nebraska	2.30	2.72	3.45	4.15	4.95	5.09	5.01	4.59	4.36	4.46	4.48	4.60
Nevada	2.83	4.06	4.84	5.56	6.81	6.95	7.04	5.96	5.31	5.87	5.55	5.66
New Hampshire	(4)	4.66	5.68	6.85	7.47	7.02	7.15	7.07	6.50	6.28	6.85	7.41
New Jersey	4.30	5.06	5.87	7.03	7.43	7.30	7.49	7.35	6.60	6.32	6.51	6.60
New Mexico	2.73	3.32	3.86	4.94	5.50	5.90	6.08	5.72	4.98	5.23	5.73	5.67
New York	4.12	4.95	5.50	6.51	7.87	7.64	7.74	7.46	6.88	6.50	7.22	7.40
North Carolina	3.52	4.11	5.17	5.73	6.65	6.68	6.60	6.62	6.66	6.25	6.55	6.17
North Dakota	2.88	3.85	4.28	4.61	5.56	6.38	5.59	5.29	5.47	5.15	4.68	4.70
Ohio	2.81	3.54	3.97	4.96	6.08	6.07	6.04	5.80	5.35	5.21	5.32	5.29
Oklahoma	2.20	2.46	2.94	3.53	4.33	4.56	4.58	5.01	4.63	4.52	4.50	4.80
Oregon	4.12	5.60	6.06	6.92	7.23	7.18	6.93	6.61	6.62	6.79	6.19	6.27
Pennsylvania	3.19	3.80	4.51	5.42	6.44	6.56	6.72	6.39	6.03	5.79	6.14	6.61
Rhode Island	3.67	5.69	6.61	7.95	8.66	7.50	7.87	7.46	6.81	6.60	7.13	7.22
South Carolina	3.50	4.19	4.90	5.51	6.38	6.62	6.62	6.54	6.59	6.73	6.73	7.17
South Dakota	2.61	3.13	3.91	4.71	5.59	6.16	5.75	5.26	4.87	4.91	4.85	5.14
Tennessee	2.37	2.89	3.44	4.32	5.26	5.04	5.12	4.97	4.68	4.65	4.83	5.11
Texas	3.21	3.40	4.20	5.21	5.55	5.82	5.77	5.31	5.20	5.37	5.55	5.78
Utah	2.22	2.74	3.23	3.41	4.26	5.68	4.86	4.64	4.97	5.11	5.14	5.28
Vermont	(d)	6.22	7.00	7.24	6.79	6.30	6.28	6.28	6.23	5.65	5.62	5.79
Virginia	3.71	4.26	4.66	6.02	7.03	6.99	7.02	6.49	5.86	5.81	6.59	6.75
Washington	3.95	5.31	6.02	6.87	6.87	6.84	6.60	5.93	5.42	5.50	5.49	5.02
West Virginia	2.93	3.59	4.24	5.20	6.00	6.12	6.39	6.34	5.98	5.50	5.73	6.46
Wisconsin	3.06	3.83	4.77	5.64	6.48	6.51	6.47	6.20	6.00	5.89	5.64	5.74
Wyoming	2.51	2.81	3.51	4.53	5.13	5.84	5.17	4.93	4.70	4.48	4.71	4.84
Total	2.98	3.68	4.29	5.17	6.06	6.12	6.12	5.83	5.54	5.47	5.64	5.80

See notes and sources at end of table

Average Price of Natural Gas Delivered to Residential
(In Dollars per Thousand Cubic Feet)

NA = Not Available
(a) Included in Maryland averages.
(b) Averages include New Hampshire and Vermont.
(c) Averages include the District of Columbia.
(d) Included in Maine averages.

SOURCE: U.S. Energy Information Administration, Natural Gas Annuals.

Historical United States Gross and Marketed Production of Natural Gas: 1935-1946
(Millions of Cubic Feet)

Year	Gross Production	Repressuring	Vented and Flared(a)	Marketed Production(b)
1935	2,498,005	90,290	479,826	1,927,889
1936	2,633,835	73,507	392,528	2,178,800
1937	3,032,410	84,925	526,159	2,421,326
1938	3,061,200	101,551	649,106	2,310,543
1939	3,333,500	171,401	677,311	2,484,788
1940	3,694,100	362,916	655,967	2,675,217
1941	4,103,500	644,379	630,212	2,828,909
1942	4,453,900	752,619	626,782	3,074,499
1943	5,160,650	824,803	902,115	3,433,642
1944	5,614,220	882,979	1,010,285	3,720,956
1945	5,902,180	1,061,951	896,208	3,944,021
1946	6,190,200	1,038,242	1,102,033	4,049,925

(a) Partly estimated; includes direct losses on producing properties and residue blown to the air.
(b) Marketed production equals gross production, less amounts used for repressuring, vented and flared.

SOURCE: U.S. Bureau of Mines, Mineral Industry Surveys, Natural Gas Annuals.

BASIC PETROLEUM DATA BOOK

SECTION XIV. OPEC

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Section XIV
Table 1

OPEC Crude Oil Reserves Annually as of January 1
(Millions of Barrels)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC
1960	50,000	62,000	6,500	35,000	25,000	18,000	-	-	-	-	-	-	-	-	196,500
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	-	-	-	-	-	-	-	201,000
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	-	-	-	-	-	214,300
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	-	-	-	-	-	220,000
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000	-	-	-	-	-	232,950
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	-	-	-	-	-	238,500
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	-	-	-	-	-	239,650
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	-	-	-	-	278,900
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	-	-	-	-	299,450
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	-	-	-	326,225
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000	-	-	-	391,750
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000 (j)	9,300	-	-	431,900
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	-	-	425,251
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,870
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19,500	1,700	2,125	440,395
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,600	29,411	8,440	17,400	1,100	500	435,591
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355
1982	164,600	64,480	6,500	57,000	29,700	20,300	3,434	22,600	9,800	32,176	8,080	16,500	850	480	436,500
1983	162,400	64,230	5,840	55,308	41,000	21,500	3,425	21,500	9,550	32,354	9,440	16,750	1,400	460	445,157
1984	166,000	63,900	5,695	51,000	43,000	24,850	3,330	21,270	9,100	32,240	9,220	16,550	1,675	490	448,320
1985	169,000	90,000	5,420	48,500	44,500	25,845	3,350	21,100	8,650	32,390	9,000	16,650	1,400	510	476,315
1986	168,800	89,774	5,380	47,876	44,110	25,591	3,300	21,300	8,500	32,890	8,820	16,600	1,650	520	475,111
1987	166,574	91,916	5,212	48,600	47,100	25,500	3,154	21,300	8,300	33,050	8,800	16,000	1,672	645	478,023
1988	166,980	91,920	5,210	92,850	100,000	56,300	3,150	21,000	8,400	97,705	8,500	15,980	1,615	645	670,255
1989	169,970	91,920	5,210	92,850	100,000	58,084	3,150	22,000	8,250	97,705	8,400	16,000	1,350	720	675,609
1990	254,959	94,525	5,200	92,860	100,000	58,504	4,500	22,800	8,200	97,705	9,200	16,000	1,514	733	766,700
1991	257,504	94,525	5,000	92,850	100,000	59,040	4,500	22,800	11,050	97,700	9,200	17,100	1,420	730	773,419
1992	257,842	94,000	5,000	92,860	100,000	59,100	3,729	22,800	6,581	97,700	9,200	17,900	1,550	730	769,392

(a) Original member 1960.
(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Government estimate

SOURCE: Oil and Gas Journal, "Worldwide Report" issue

OPEC Crude Oil Production
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC
1960	1,247	1,624	136	1,054	967	2,846	-	-	-	-	-	-	-	-	7,874
1961	1,393	1,644	179	1,183	1,002	2,920	176	-	-	-	-	-	-	-	8,497
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	-	-	-	-	-	9,954
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	-	-	-	-	-	10,865
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	-	-	-	-	-	12,082
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	-	-	-	-	-	13,177
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	-	-	-	-	-	14,217
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	-	-	-	-	15,631
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	-	-	-	-	17,660
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	-	-	-	20,341
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	-	-	-	22,134
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	-	-	25,092
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	-	-	26,711
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371
1979	9,251	2,213	568	3,168	3,477	2,356	508	2,092	1,591	1,831	1,137	2,302	214	203	30,911
1980	9,631	1,389	544	1,662	2,514	2,165	471	1,830	1,576	1,702	1,020	2,058	204	175	26,941
1981	9,625	947	370	1,381	993	2,108	405	1,137	1,604	1,500	803	1,445	211	151	22,680
1982	6,327	663	317	2,282	972	1,893	328	1,183	1,314	1,248	701	1,298	211	154	18,891
1983	4,867	881	390	2,492	922	1,781	295	1,076	1,385	1,119	699	1,241	236	157	17,541
1984	4,444	912	410	2,187	1,203	1,813	399	1,073	1,466	1,097	638	1,393	253	152	17,440
1985	3,290	862	355	2,258	1,437	1,621	302	1,069	1,235	1,146	645	1,464	280	153	16,117
1986	4,935	1,344	332	1,929	1,746	1,576	342	1,137	1,264	1,331	671	1,461	289	180	18,537
1987	4,067	1,034	391	2,451	2,076	1,572	308	972	1,191	1,454	635	1,286	167	156	17,760
1988	5,128	1,255	311	2,284	2,599	1,661	315	1,054	1,159	1,506	633	1,379	309	175	19,768
1989	4,904	1,602	397	2,858	2,809	1,713	378	1,096	1,217	1,882	695	1,639	287	220	21,696
1990	6,287	1,073	298	3,076	1,948	2,103	385	1,350	1,249	2,062	765	1,779	285	278	22,940
1991	8,079	127	124	3,167	210	2,329	378	1,483	1,437	2,388	800	1,885	291	280	22,978

(a) Original member 1960

(b) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis

(c) Joined in 1961

(d) Joined in 1962

(e) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah

(f) Joined in 1969

(g) Joined in 1971

(h) Joined in 1973

(i) Joined as an associate member in 1973 and became a full member in 1975

SOURCE: 1960-1978: U.S. Energy Information Administration
1979-1991: CIA, International Energy Statistical Review

United States Total Petroleum Imports from OPEC Nations
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Petroleum Imports
1960	79	146	45	36	17	832	.	.	.	8	.	.	.	.	1,163	1,815
1961	69	130	53	60	25	800	36	.	.	.	.	.	.	.	1,173	1,917
1962	73	120	43	49	2	907	27	19	67	.	.	.	.	.	1,307	2,082
1963	86	89	44	62	1	899	17	19	59	.	.	.	.	.	1,276	2,123
1964	106	69	48	66	.	931	20	39	63	.	.	.	.	.	1,342	2,258
1965	144	60	27	79	16	994	13	41	61	.	.	.	.	.	1,435	2,468
1966	135	31	19	89	26	1,021	1	69	50	.	.	.	.	.	1,441	2,573
1967	86	23	11	71	5	935	.	42	62	5	.	.	.	.	1,240	2,537
1968	60	48	29	61	.	888	.	114	73	15	.	.	.	.	1,288	2,840
1969	42	39	43	46	.	876	1	135	89	14	2	.	.	.	1,287	3,166
1970	42	36	.	38	.	989	.	47	70	63	8	.		.	1,293	3,419
1971	127	36	.	112	11	1,019	.	57	111	80	15	103	.	.	1,671	3,925
1972	190	45	.	142	4	960	3	123	164	73	92	251	.	.	2,047	4,741
1973	486	47	.	223	4	1,135	7	164	213	71	135	459	48	.	2,992	6,256
1974	461	5	.	469	.	979	17	4	300	74	190	713	42	23	3,277	6,112
1975	715	15	.	280	3	698	18	232	388	117	282	762	57	27	3,594	6,056
1976	1,230	5	.	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,313
1977	1,380	48	.	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807
1978	1,144	6	.	555	62	645	64	654	573	385	649	919	54	41	5,751	8,363
1979	1,356	8	.	304	88	690	31	658	420	281	636	1,080	42	42	5,686	8,456
1980	1,261	25	.	9	28	481	22	554	348	172	488	857	27	26	4,298	6,909
1981	1,129	.	.	.	(j)	406	7	319	366	81	311	620	48	35	3,324	5,996
1982	552	5	.	35	3	412	7	26	248	92	170	514	42	40	2,145	5,113
1983	337	14	.	48	10	422	.	.	338	30	240	302	61	59	1,863	5,051
1984	325	36	.	10	12	548	5	1	343	117	323	216	55	58	2,049	5,437
1985	168	21	.	27	46	605	.	4	314	45	187	293	67	52	1,830	5,067
1986	685	68	.	19	81	793	13	.	318	44	271	440	77	26	2,836	6,224
1987	751	84	.	98	83	804	.	.	285	61	295	535	29	35	3,061	6,678
1988	1,064	92	9	.	345	794	.	.	205	29	300	618	47	16	3,520	7,402
1989	1,224	157	.	.	449	873	2	.	183	28	269	815	89	50	4,140	8,061

See notes and sources at end of table

Section XIV
Table 3a

United States Total Petroleum Imports from OPEC Nations
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Petroleum Imports
1990	1,339	86	-	-	518	1,025	4	-	114	17	280	800	49	64	4,296	8,018
1991	1,802	6	-	32	-	1,035	-	-	111	3	253	703	63	84	4,092	7,627

(a) Original member 1960.
(b) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Less than 500 barrels per day.

SOURCE: 1960-1980: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals

United States Crude Oil Imports from OPEC Nations(j)
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Crude Oil Imports
1960	77	130	45	36	17	472	-	-	-	-	-	-	-	-	777	1,015
1961	62	121	53	60	20	427	10	-	-	-	-	-	-	-	753	1,045
1962	67	112	43	49	2	463	26	18	67	-	-	-	-	-	847	1,126
1963	79	81	44	62	1	478	16	19	59	-	-	-	-	-	839	1,131
1964	97	64	48	66	-	476	20	39	63	-	-	-	-	-	873	1,198
1965	132	55	27	78	16	432	12	41	61	-	-	-	-	-	854	1,238
1966	126	26	19	84	26	404	1	69	50	-	-	-	-	-	805	1,225
1967	81	19	11	65	5	359	-	42	62	5	-	-	-	-	649	1,128
1968	52	43	29	58	-	344	-	114	73	15	-	-	-	-	728	1,290
1969	35	34	43	42	-	306	1	134	89	14	1	-	-	-	699	1,409
1970	40	33	-	33	-	268	-	47	70	63	6	-	-	-	560	1,324
1971	115	29	-	106	11	303	-	53	110	80	13	95	-	-	915	1,681
1972	174	36	-	136	4	255	3	109	163	73	87	243	-	-	1,283	2,216
1973	462	42	-	217	4	344	7	133	200	71	119	448	47	-	2,094	3,244
1974	438	5	-	463	-	319	17	4	284	69	180	697	42	23	2,541	3,477
1975	701	4	-	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105
1976	1,222	1	-	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287
1977	1,369	42	-	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,615
1978	1,142	5	-	554	62	181	64	638	533	385	634	910	38	38	5,184	6,356
1979	1,347	5	-	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519
1980	1,250	27	-	8	28	156	22	548	314	172	456	841	17	25	3,864	5,263
1981	1,112	-	-	-	-	147	7	317	318	77	261	611	38	35	2,922	4,396
1982	530	2	-	35	3	155	7	23	226	81	90	510	32	40	1,734	3,488
1983	321	7	-	48	10	164	-	-	315	18	176	301	56	59	1,477	3,329
1984	309	24	-	10	12	253	4	-	304	90	194	207	47	57	1,511	3,426
1985	132	4	-	27	46	306	-	-	292	35	84	280	56	51	1,312	3,201
1986	618	28	-	19	81	416	12	-	297	38	78	437	64	25	2,113	4,178
1987	642	70	-	98	82	488	-	-	262	56	115	529	23	35	2,400	4,674
1988	902	80	9	-	343	439	-	-	186	23	58	607	33	15	2,696	5,107
1989	1,116	155	-	-	441	495	2	-	158	21	60	800	80	49	3,376	5,843

See notes and sources at end of table

Section XIV
Table 4a

United States Crude Oil Imports from OPEC Nations(j)
(Thousands of barrels per day)

Year	Saudi Arabia (a)	Kuwait (a)	Neutral Zone (b)	Iran (a)	Iraq (a)	Venezuela (a)	Qatar (c)	Libya (d)	Indonesia (d)	United Arab Emirates (e)	Algeria (f)	Nigeria (g)	Ecuador (h)	Gabon (i)	Total OPEC	Total U.S. Crude Oil Imports
1990	1,195	79	-	-	514	666	4	-	98	9	63	784	38	64	3,514	5,894
1991	1,703	6	-	32	-	668	-	-	102	2	44	683	53	84	3,376	5,782

(a) Original member 1960
(b) In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.
(c) Joined in 1961.
(d) Joined in 1962.
(e) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah, and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.
(f) Joined in 1969.
(g) Joined in 1971.
(h) Joined in 1973.
(i) Joined as an associate member in 1973 and became a full member in 1975.
(j) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: 1960-1975: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues
1976-1980: U.S. Energy Information Administration, Annual Petroleum Statement
1981-1991: U.S. Energy Information Administration, Petroleum Supply Annuals

Section XIV
Table 5

OPEC Refinery Capacity
(Thousands of Barrels per Day)

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Algeria	43.7	57.5	57.5	57.5	57.5	57.5	57.5	115.8	115.8	115.8	115.8	115.8	115.8	115.8	135.1
Ecuador	18.2	10.9	19.4	34.5	34.5	34.5	35.5	35.5	35.5	43.9	43.9	43.9	99.5	99.5	94.5
Gabon	--	--	11.9	11.9	14.0	16.0	17.0	17.0	17.0	17.0	20.0	44.0	44.0	44.0	44.0
Indonesia	236.9	241.4	251.2	251.2	256.0	283.5	361.3	361.3	361.3	361.3	361.3	473.4	473.4	473.4	473.4
Iran	466.5	524.2	524.2	594.0	594.0	594.0	605.0	605.0	660.0	690.0	810.0	810.0	1,050.0	1,080.0	1,080.0
Iraq	81.7	81.7	97.7	102.7	102.7	115.7	115.7	115.7	183.5	253.5	253.5	253.5	253.5	295.5	305.5
Kuwait	342.0	342.0	342.0	437.0	437.0	437.0	437.0	484.5	541.5	541.5	609.0	609.0	594.0	594.0	594.0
Libya	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	63.0	63.0	63.0	117.0	117.0	117.0
Nigeria	30.3	30.3	40.0	40.0	40.0	52.1	54.0	54.0	54.0	54.0	54.0	54.0	54.0	144.0	144.0
Qatar	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	9.7	9.7	9.7	9.7	10.5
Saudi Arabia	302.5	335.0	335.0	347.0	347.0	676.0	676.0	676.0	676.0	676.0	703.0	703.0	703.0	758.0	758.0
United Arab Emirates	--	--	--	--	--	--	--	--	--	--	--	15.0	13.5	13.5	13.5
Venezuela	1,119.8	1,134.5	1,216.8	1,222.2	1,258.0	1,289.4	1,294.9	1,473.9	1,473.9	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9	1,444.9
TOTAL OPEC	2,651.2	2,767.2	2,905.4	3,107.7	3,150.4	3,565.4	3,663.6	3,948.4	4,128.2	4,290.6	4,488.1	4,637.7	4,972.3	5,189.3	5,214.4

See notes and sources at end of table

Section XIV
Table 5a

OPEC Refinery Capacity
(Thousands of Barrels per Day)

Country	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	474.5	474.5
Ecuador	94.5	94.5	94.5	94.6	94.6	94.6	94.6	133.0	133.0	135.1	132.0
Gabon	44.0	44.0	44.0	44.0	44.0	21.0	21.0	21.0	20.0	20.0	20.0
Indonesia	473.4	473.4	473.4	837.0	837.0	837.0	738.7	738.7	738.7	751.3	751.3
Iran	1,320.0	1,320.0	670.0	670.0	615.0	615.0	615.0	615.0	615.0	766.0	766.0
Iraq	305.5	305.5	215.5	365.5	365.5	365.5	365.5	365.5	365.5	550.0	550.0
Kuwait	594.0	594.0	594.0	564.0	564.0	564.0	614.0	670.0	670.0	670.0	670.0
Libya	117.0	117.0	117.0	117.0	315.0	333.0	342.0	342.0	342.0	342.0	342.0
Nigeria	234.0	234.0	234.0	234.0	234.0	234.0	243.0	265.5	265.5	400.5	400.5
Qatar	10.5	10.5	13.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	60.0
Saudi Arabia	645.0	765.0	765.0	935.0	1,190.0	1,440.0	1,440.0	1,425.0	1,425.0	1,425.0	1,757.5
United Arab Emirates	13.5	121.5	121.5	175.5	162.0	162.0	162.0	162.0	162.0	162.0	162.0
Venezuela	1,444.9	1,444.9	1,323.1	1,323.1	1,224.2	1,229.2	1,224.2	1,258.1	1,201.1	1,167.0	2,458.0
TOTAL OPEC	5,767.5	5,995.5	5,136.2	5,893.9	6,179.5	6,429.5	6,394.2	6,530.0	6,472.0	6,926.4	8,543.8

SOURCE: OPEC Annual Statistical Bulletin

Section XIV
Table 6

OPEC'S Value of Petroleum Exports
(Millions of Dollars)

Country	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Algeria	$508	$532	$589	$631	$681	$614	$1,028	$1,522	$4,267	$4,295	$4,791	$5,562	$5,856	$8,746	$12,647	$2,985	$10,770
Ecuador	1	1	1	1	1	1	59	282	693	516	565	500	604	1,161	1,563	1,709	1,509
Gabon	14	32	38	53	58	82	93	196	709	841	881	927	975	1,265	1,876	1,723	1,720
Indonesia	203	240	298	383	446	565	913	1,609	5,211	5,311	6,004	7,298	7,439	8,871	15,595	18,164	15,223
Iran	1,148	1,748	1,688	1,857	2,358	3,494	3,636	5,617	20,904	19,634	22,923	23,599	21,684	19,186	13,286	12,053	19,233
Iraq	698	610	755	769	788	1,083	1,027	1,842	6,534	8,227	9,201	9,560	10,913	21,382	26,296	10,422	10,104
Kuwait	808	803	860	910	1,596	2,143	2,370	3,520	10,394	8,424	8,953	8,778	9,422	16,770	17,678	13,790	8,827
Libya	1,002	1,169	1,857	2,159	2,357	2,697	2,888	3,919	8,175	6,677	9,399	11,220	9,681	15,693	21,396	14,531	13,250
Nigeria	260	204	104	367	715	1,342	1,796	2,905	8,619	7,569	9,943	11,046	8,986	16,303	25,262	17,569	12,833
Qatar	180	202	210	222	227	301	382	601	1,979	1,757	2,137	1,982	2,294	3,643	5,405	5,348	4,106
Saudi Arabia	1,298	1,384	2,020	2,107	2,418	3,803	5,477	8,956	35,476	29,473	38,157	43,308	40,332	62,855	108,174	118,998	78,119
United Arab Emirate	247	262	335	391	485	718	998	1,867	6,948	6,762	8,258	9,132	8,624	12,915	19,558	18,815	15,337
Venezuela	2,190	2,307	2,330	2,279	2,371	2,882	2,857	4,328	10,548	8,324	8,763	9,110	8,740	13,633	18,248	19,039	15,624
TOTAL OPEC	8,558	9,493	11,085	12,129	14,501	19,725	23,524	37,164	120,457	107,810	129,975	142,022	135,550	202,423	286,984	265,146	206,655

See notes and sources at end of table

Section XIV
Table 6a

OPEC'S Value of Petroleum Exports
(Millions of Dollars)

Country	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	$9,467	$9,189	$9,170	$4,819	$6,057	$4,988	$7,000	$8,854
Ecuador	1,733	1,835	1,927	983	724	976	1,147	1,258
Gabon	1,500	1,767	1,629	723	896	779	1,200	1,967
Indonesia	13,558	12,477	9,083	5,501	6,157	5,185	5,716	8,700
Iran	19,225	12,255	13,115	7,183	10,515	8,170	12,500	17,300
Iraq	9,900	11,992	10,685	6,905	11,416	10,952	14,500	9,463
Kuwait	9,736	10,740	9,817	6,378	7,520	6,295	10,863	5,536
Libya	11,905	10,747	9,962	5,787	6,011	5,169	7,500	9,700
Nigeria	10,266	11,704	12,353	6,177	7,023	6,126	8,700	13,200
Qatar	3,104	4,381	3,068	1,720	1,829	1,709	2,000	2,800
Saudi Arabia	44,832	36,263	24,180	16,975	19,271	20,500	24,000	39,700
United Arab Emirate	12,235	12,978	11,842	7,453	8,665	7,352	11,500	15,000
Venezuela	13,839	12,145	10,352	6,713	6,959	8,162	10,020	13,958
TOTAL OPEC	161,260	148,473	127,181	77,314	93,042	86,364	116,646	147,436

SOURCE: OPEC Annual Statistical Bulletin 1987, and 1989

Section XIV
Table 7

OPEC Marketed Production of Natural Gas
(Millions of Cubic Meters)

Country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Algeria	1,780	1,961	2,128	2,357	2,972	2,599	6,573	4,092	3,196	3,807	7,516	7,585	5,738	8,078	15,548	11,647	21,862
Ecuador	--	--	--	14	14	14	14	17	28	28	31	31	40	40	35	31	55
Gabon	11	11	17	24	22	32	31	34	283	637	262	169	177	165	150	159	143
Indonesia	3,156	510	623	633	1,193	1,239	1,253	1,229	800	1,127	2,322	2,338	5,652	10,865	15,765	18,503	18,775
Iran	1,242	1,404	2,850	4,370	4,944	12,881	14,278	16,342	17,789	20,661	20,282	19,997	18,852	16,948	17,913	7,138	5,950
Iraq	498	607	484	485	762	784	925	935	910	836	1,299	1,802	1,178	1,221	1,751	1,281	620
Kuwait	1,817	2,380	2,708	3,339	3,727	2,037	2,104	2,487	2,786	2,931	3,212	3,864	4,213	4,721	6,251	4,071	4,684
Libya	--	--	--	--	--	294	708	2,832	4,531	4,075	4,635	4,779	5,051	5,121	6,785	5,170	3,150
Nigeria	98	176	181	147	64	111	184	273	303	404	402	632	500	380	1,378	1,070	2,155
Qatar	81	82	113	514	852	1,005	1,005	1,103	1,580	1,298	2,003	1,094	1,551	1,479	4,362	4,741	4,323
Saudi Arabia	1,031	1,133	1,136	1,639	1,744	1,230	1,378	1,178	2,316	3,835	3,772	4,434	5,565	7,297	9,167	11,431	22,245
United Arab Emirate	--	--	454	600	569	756	1,045	1,038	1,251	1,199	1,090	1,371	3,796	5,164	5,431	6,863	9,075
Venezuela	7,034	5,983	6,300	6,850	7,065	7,710	7,472	7,427	9,149	9,669	9,404	11,658	12,729	12,523	14,382	14,805	14,886
TOTAL OPEC	16,748	14,247	16,994	20,972	23,928	30,692	36,970	38,987	44,922	50,507	56,230	59,754	65,042	74,002	98,918	86,910	107,923

See notes and sources at end of table

Section XIV
Table 7a

OPEC Marketed Production of Natural Gas
(Millions of Cubic Meters)

Country	1982	1983	1984	1985	1986	1987	1988	1989	1990
Algeria	26,686	36,267	35,039	36,470	37,560	43,170	46,290	48,400	50,640
Ecuador	73	85	81	78	80	40	80	80	100
Gabon	150	118	71	80	90	115	100	90	100
Indonesia	19,076	21,992	32,969	33,905	35,374	36,550	38,510	44,332	48,604
Iran	7,200	11,000	13,500	14,600	15,200	16,000	20,000	22,200	23,710
Iraq	680	470	590	850	1,550	3,750	5,600	6,100	4,180
Kuwait	3,675	4,035	4,376	4,200	5,730	4,780	6,840	8,160	5,230
Libya	3,350	3,710	4,600	5,200	5,600	5,000	5,500	6,000	6,200
Nigeria	1,413	2,298	2,051	2,800	3,299	3,493	3,770	4,322	3,710
Qatar	5,055	5,235	5,930	5,460	5,800	5,610	5,860	6,090	6,720
Saudi Arabia	8,950	4,380	18,200	18,800	25,200	26,800	29,100	29,800	30,500
United Arab Emirate	8,320	8,400	11,060	13,210	15,220	18,890	19,360	21,980	22,100
Venezuela	15,883	15,640	17,300	17,326	19,074	18,589	18,794	18,660	21,401
TOTAL OPEC	100,511	113,630	145,767	152,979	169,777	182,787	199,804	216,214	223,195

SOURCE: OPEC Annual Statistical Bulletin

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

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Section XV
Table 1

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1990

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	2,980	387	50	82	2,827	5,620	10,317	22,263
Alaska	10,257	308	22	1,095	237	656	1,104	13,679
Arizona	106	NA	NA	129	1,724	1,314	9,545	12,818
Arkansas	2,588	475	NA	274	2,223	2,305	5,893	13,758
California	30,972	23,547	909	1,295	11,524	13,188	62,217	143,652
Colorado	12,599	471	46	155	2,145	2,366	9,514	27,296
Connecticut	40	0	52	0	2,509	1,773	8,768	13,142
Delaware	13	767	11	3	319	223	1,508	2,844
District of Columbia	241	40	NA	0	626	184	849	1,940
Florida	514	17	285	67	2,327	7,501	30,348	41,059
Georgia	77	87	109	517	4,282	6,674	18,475	30,221
Hawaii	NA	477	0	0	NA	781	3,353	4,611
Idaho	5	0	0	20	353	1,450	3,684	5,512
Illinois	3,362	7,623	1,360	901	8,087	10,720	26,854	58,907
Indiana	512	2,253	344	389	2,681	3,481	20,013	29,673
Iowa	31	18	180	191	1,092	2,791	14,103	18,406
Kansas	8,447	1,945	355	2,197	2,526	2,606	9,155	27,231
Kentucky	1,828	3,422	71	136	2,897	3,206	12,553	24,113
Louisiana	53,700	10,500	655	1,015	5,791	5,611	8,271	85,543
Maine	21	0	0	67	73	1,243	4,249	5,653
Maryland	28	NA	253	NA	1,128	2,925	12,917	17,251
Massachusetts	9	NA	429	15	5,163	2,653	14,209	22,478
Michigan	3,880	687	811	278	6,694	5,949	26,475	44,774
Minnesota	70	NA	137	217	2,242	2,833	18,803	24,302
Mississippi	5,376	1,733	153	222	2,030	2,557	7,140	19,211
Missouri	74	NA	308	206	3,950	5,809	21,511	31,858
Montana	1,698	775	0	86	370	1,209	3,485	7,623
Nebraska	459	NA	NA	75	1,387	2,479	7,508	11,908
Nevada	205	0	0	9	872	2,229	4,312	7,627
New Hampshire	0	0	28	3	298	384	3,021	3,734
New Jersey	96	6,633	1,035	143	2,364	3,670	18,431	32,372
New Mexico	9,955	589	32	237	2,556	2,246	4,819	20,434
New York	1,583	2,100	417	142	6,627	7,977	28,056	46,902
North Carolina	61	NA	307	116	3,014	5,786	10,794	20,078
North Dakota	2,883	231	107	134	872	2,061	2,514	8,802
Ohio	5,819	7112	630	676	7,371	6,561	35,219	63,388
Oklahoma	41,857	4,506	633	1,177	5,465	4,777	8,262	66,677
Oregon	42	NA	78	NA	1,426	2,308	8,954	12,808
Pennsylvania	3,500	9,200	800	700	8,100	8,100	28,200	58,600
Rhode Island	NA	0	0	NA	958	399	2,270	3,627
South Carolina	28	NA	NA	NA	589	3,310	7,817	11,744
South Dakota	108	0	0	51	125	1,564	2,924	4,772
Tennessee	228	410	55	43	1,885	5,915	12,978	21,514
Texas	171,709	26,389	1,028	4,475	27,970	23,027	32,530	287,128
Utah	2,139	897	3	71	2,238	1,059	6,014	12,421
Vermont	NA	NA	NA	NA	109	389	2,119	2,617

See notes and sources at end of table

Section XV
Table 1a

Estimated Average Number of Employees in Important Segments of the Petroleum Industry in 1990

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Virginia	254	272	NA	NA	2,938	8,770	16,783	29,017
Washington	237	1,927	NA	121	NA	2,566	10,752	15,603
West Virginia	4,591	273	210	79	4,940	1,179	5,311	16,583
Wisconsin	NA	NA	NA	200	2,642	3,952	18,277	25,071
Wyoming	8,941	1,011	6	223	980	731	3,537	15,429
Total U.S.	394,123	117,082	11,909	18,232	161,546	199,067	646,715	1,548,674

NA Not Available

Note: The above estimates represent results of the Independent Petroleum Association of America's survey of State Labor Departments. The totals of these individual state estimates do not agree with totals shown by the Bureau of Labor Statistics in its "Employment and Earnings" publication due to confidentiality rules.

United States Service Station Population by State

	1977(a)	1980	1981	1982(a)	1983	1984	1985	1986	1987	1988	1989	1990	1991(a)	1992
Alabama	3,562	3,198	3,051	2,001	1,889	1,827	1,722	1,660	2,229	1,198	1,176	1,173	6,500	6,500
Alaska	211	188	179	176	166	161	152	146	214	211	209	208	300	296
Arizona	1,656	1,486	1,418	1,204	1,137	1,099	1,036	1,006	1,241	1,222	1,210	1,206	4,010	2,425
Arkansas	2,407	2,161	2,062	1,216	1,148	1,110	1,047	999	1,357	1,338	1,325	1,321	3,764	3,592
California	14,388	12,916	12,320	10,624	10,029	9,698	9,145	8,814	9,812	9,675	9,578	9,549	13,800	13,140
Colorado	2,485	2,230	2,127	1,570	1,482	1,433	1,351	1,302	1,568	1,546	1,531	1,527	3,400	3,281
Connecticut	2,215	1,988	1,897	1,726	1,629	1,576	1,486	1,432	1,671	1,648	1,632	1,627	1,900	1,850
Delaware	435	391	373	300	283	274	258	249	279	275	272	271	450	508
Dist. of Col.	250	224	214	158	149	144	136	131	115	113	112	112	134	180
Florida	7,287	6,541	6,240	5,504	5,196	5,024	4,738	4,566	5,933	5,850	5,792	5,775	10,152	10,062
Georgia	5,066	4,546	4,337	3,077	2,905	2,809	2,649	2,553	3,273	3,228	3,196	3,187	7,000	7,000
Hawaii	415	372	355	367	346	335	316	304	355	350	347	346	392	407
Idaho	830	745	711	494	466	451	425	410	558	550	545	543	1,123	1,073
Illinois	7,815	7,014	6,691	5,132	4,845	4,685	4,418	4,258	4,655	3,590	3,554	3,543	10,100	5,749
Indiana	4,867	4,348	4,148	3,167	2,990	2,891	2,726	2,627	2,854	2,814	2,786	2,778	4,500	3,901
Iowa	3,424	3,074	2,933	2,064	1,948	1,884	1,777	1,712	2,020	1,992	1,972	1,966	4,169	3,783
Kansas	2,466	2,214	2,112	1,511	1,426	1,379	1,301	1,254	1,576	1,554	1,539	1,534	3,062	2,896
Kentucky	3,452	3,099	2,956	2,119	2,000	1,934	1,824	1,758	2,058	2,029	2,009	2,003	2,446	2,360
Louisiana	2,989	2,683	2,560	1,972	1,862	1,800	1,698	1,636	1,934	1,907	1,888	1,882	6,600	9,497
Maine	933	838	799	640	604	584	551	531	673	664	657	655	700	1,500
Maryland	2,465	2,213	2,111	1,877	1,772	1,713	1,616	1,557	1,846	1,820	1,802	1,797	2,450	2,245
Massachusetts	3,882	3,484	3,324	2,962	2,796	2,704	2,550	2,457	2,738	2,730	2,703	1,695	2,500	4,500
Michigan	6,572	5,899	5,628	4,130	3,899	3,770	3,555	3,426	4,164	4,106	4,065	4,053	8,500	6,905
Minnesota	3,280	2,944	2,809	2,228	2,103	2,034	1,918	1,848	2,289	2,257	2,235	2,228	3,598	3,157
Mississippi	1,962	1,761	1,680	1,191	1,124	1,087	1,025	988	1,374	1,355	1,342	1,338	6,000	6,127
Missouri	5,008	4,497	4,290	2,944	2,779	2,687	2,534	2,442	3,119	3,075	3,044	3,035	7,200	5,895
Montana	968	868	828	528	498	482	455	438	548	540	535	533	1,400	1,432
Nebraska	1,732	1,555	1,483	1,129	1,066	1,031	972	937	1,163	1,147	1,136	1,133	3,000	2,008
Nevada	641	575	549	476	449	435	410	395	441	435	431	430	450	694
New Hampshire	704	632	603	547	516	499	471	454	534	527	522	521	1,050	1,069
New Jersey	5,350	4,802	4,581	4,157	3,924	3,795	3,578	3,449	3,791	3,738	3,701	3,890	3,860	3,800
New Mexico	1,389	1,247	1,190	780	736	712	671	647	696	686	679	677	2,066	1,858
New York	9,245	8,298	7,917	6,328	5,973	5,777	5,447	5,250	5,982	5,898	5,839	5,822	6,800	7,000
North Carolina	5,775	5,185	4,946	3,049	2,878	2,783	2,625	2,529	3,547	3,497	3,462	3,452	10,643	10,244
North Dakota	687	617	589	422	398	385	363	350	471	464	459	458	1,245	983
Ohio	8,820	7,916	7,552	5,704	5,573	5,389	5,082	4,898	5,362	5,287	5,234	5,218	6,205	6,632
Oklahoma	3,063	2,748	2,622	1,599	1,509	1,460	1,376	1,327	1,705	1,682	1,665	1,660	4,700	4,450
Oregon	2,185	1,962	1,872	1,492	1,408	1,362	1,284	1,238	1,352	1,334	1,321	1,317	2,165	2,091
Pennsylvania	8,994	8,073	7,702	5,781	5,457	5,277	4,976	4,796	5,192	5,119	5,068	5,053	6,000	5,790
Rhode Island	697	625	596	515	486	470	443	427	487	476	471	470	602	703
South Carolina	3,001	2,694	2,570	1,666	1,573	1,521	1,434	1,382	1,833	1,807	1,789	1,784	5,200	4,776
South Dakota	861	772	736	533	503	487	459	442	556	548	543	541	1,245	1,245
Tennessee	4,090	3,671	3,502	2,490	2,351	2,273	2,143	2,066	2,491	2,456	2,432	2,425	6,000	6,000
Texas	12,747	11,442	10,916	8,213	7,753	7,497	7,070	6,814	8,568	8,448	8,364	8,339	11,000	9,900
Utah	1,149	1,031	984	842	795	769	725	699	849	827	819	817	2,137	2,116
Vermont	540	484	462	359	339	328	309	298	369	364	360	359	856	854
Virginia	3,992	3,583	3,418	2,652	2,503	2,421	2,283	2,200	2,740	2,702	2,675	2,667	6,000	6,400
Washington	3,005	2,696	2,572	2,146	2,026	1,959	1,847	1,780	2,003	1,975	1,955	1,949	3,500	5,306
West Virginia	1,818	1,632	1,557	1,061	1,002	969	913	880	1,013	999	989	986	2,800	2,700
Wisconsin	4,043	3,629	3,462	2,701	2,550	2,466	2,325	2,241	2,735	2,697	2,670	2,662	5,074	4,388
Wyoming	647	580	553	430	406	393	370	357	415	409	405	404	1,372	1,175
U.S. TOTAL	176,465	158,491	151,200	116,154	109,649	106,031	99,987	96,361	114,748	113,142	112,011	111,657	210,120	202,443

See notes and sources at end of table

Section XV
Table 2a

United States Service Station Population by State

(a) Data from 1977 through 1981 represent total service stations. Data beginning in 1982 represent stations with payrolls which by Census Bureau definition, generate more than half of their sales dollars through the sale of gasoline and oil products.
Data for 1991 and 1992 represent all outlets where gasoline is sold at retail; it includes service stations, convenience stores, car washes, etc.

SOURCE: 1977, 1982, and 1987: U.S. Census Bureau, Retail Trade Census
Other years: National Petroleum News estimates based on Census Bureau and other Commerce Department Data

Section XV
Table 3

The Following Equivalents are Derived from the use of British Thermal Unit Heat Values(a)

		Crude Petroleum (42 gal/bbl)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu ft)	Distillate Fuel Oil (42 gal/bbl)	Residual Fuel Oil (42 gal/bbl)	Liquefied Pet. Gas (42 gal/bbl)
Crude Petroleum	**42 Gal.Bbl.equals**	-	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	**Short Ton equals**	4.379	-	0.969	24.541	4.361	4.04	6.333
Bituminous Coal & Lignite	**Short Ton equals**	4.517	1.031	-	25.314	4.498	4.167	6.532
Natural Gas-Dry	**1000 Cu.Ft.equals**	0.178	0.041	0.04	-	0.178	0.165	0.258
Distillate Fuel Oil	**42 Gal.Bbl.equals**	1.004	0.229	0.222	5.628	-	0.927	1.452
Residual Fuel Oil	**42 Gal.Bbl.equals**	1.084	0.248	0.24	6.074	1.079	-	1.567
Liquefied Petroleum Gas	**42 Gal.Bbl.equals**	0.692	0.158	0.153	3.875	0.689	0.638	-
(a) B.T.U. Heat Values as used by Bureau of Mines	*1000s*	*5,800*	*25,400*	*26,200*	*1,035*	*5,825*	*6,287*	*4,011*

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248; Kerosine 5,670; Lubricants 6,064.8; Wax 5,537.3 Asphalt 6,636; Miscellaneous 5,796; Natural Gasoline 4,620 per 42 gallon barrel.

Gallon, Barrel, Pound and Ton Equivalents for Converting Measures of Crude Petroleum and Refined Petroleum Products

	Gravity at 60 F.(b)	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pounds
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	-	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	-	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

(b) For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu.Ft. = One 42 Gallon Barrel; U.S. Gallon = .833 Imperial Gallon.
Imperial Gallon = 1.2 U.S. Gallons

SOURCE: API-ASTM-IP Petroleum Measurement Tables

Section XV
Table 4

Heat Values for Various Energy Products

Energy Products	Units	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Coal															
Production	**Million Btu/sh. ton**	23.376	23.072	22.897	22.855	22.597	22.248	22.454	22.415	22.308	22.239	22.052	22.010	21.870	21.913
Consumption	**Million Btu/sh. ton**	23.057	22.677	22.506	22.498	22.265	22.017	22.100	21.947	21.713	21.674	21.576	21.573	21.366	21.462
Coal Coke	**Million Btu/sh. ton**	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800	24.800
Crude Oil(a)	**Million Btu/barrel**	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
Petroleum Products															
Consumption	**Million Btu/barrel**	5.515	5.504	5.494	5.504	5.518	5.519	5.494	5.479	5.448	5.415	5.406	5.395	5.387	5.418
Residential & Commercial	**Million Btu/barrel**	5.387	5.377	5.358	5.383	5.389	5.382	5.471	5.468	5.409	5.392	5.286	5.384	5.326	5.357
Industrial	**Million Btu/barrel**	5.568	5.538	5.528	5.538	5.555	5.553	5.418	5.376	5.313	5.263	5.273	5.223	5.221	5.286
Transportation	**Million Btu/barrel**	5.395	5.394	5.392	5.395	5.400	5.404	5.428	5.440	5.432	5.422	5.415	5.422	5.423	5.427
Electric Utilities	**Million Btu/barrel**	6.245	6.238	6.250	6.251	6.249	6.251	6.258	6.254	6.258	6.258	6.255	6.251	6.247	6.257
LPG average	**Million Btu/barrel**	3.746	3.730	3.715	3.711	3.677	3.669	3.680	3.674	3.643	3.615	3.614	3.599	3.603	3.640
Natural Gas Plant Liquids	**Million Btu/barrel**	4.049	4.011	3.984	3.964	3.941	3.925	3.955	3.914	3.930	3.872	3.839	3.812	3.815	3.797
Natural Gas															
Production, dry	**Btu/cubic foot**	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,031	1,031	1,032	1,030
Production, wet	**Btu/cubic foot**	1,093	1,097	1,095	1,093	1,093	1,088	1,092	1,098	1,103	1,107	1,115	1,109	1,112	1,110
Consumption	**Btu/cubic foot**	1,021	1,024	1,021	1,020	1,021	1,019	1,021	1,026	1,027	1,028	1,031	1,031	1,032	1,030
Fossil Fuel Steam-Electric Power Plant Generation(b)	**Btu/kilowatthour**	10,389	10,442	10,406	10,373	10,435	10,361	10,353	10,388	10,453	10,454	10,520	10,323	10,339	10,261
Nuclear Power Plant Gen.	**Btu/kilowatthour**	10,903	11,161	11,013	11,047	10,769	10,941	10,879	10,908	11,030	11,073	10,905	10,843	10,813	10,799
Geothermal Power Plant Gen.	**Btu/kilowatthour**	21,674	21,674	21,611	21,611	21,611	21,611	21,545	21,639	21,639	21,629	21,290	21,303	21,263	21,263
Electricity Consumption	**Btu/kilowatthour**	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412	3,412

See notes and sources at end of table

Section XV
Table 4a

Heat Values for Various Energy Products

Energy Products	Units	1987	1988	1989	1990
Coal					
Production	**Million Btu/sh. ton**	21.922	21.822	21.765	21.827
Consumption	**Million Btu/sh. ton**	21.517	21.327	21.272	21.331
Coal Coke	**Million Btu/sh. ton**	24.800	24.800	24.800	24.800
Crude Oil(a)	**Million Btu/barrel**	5.800	5.800	5.800	5.800
Petroleum Products					
Consumption	**Million Btu/barrel**	5.403	5.411	5.410	5.411
Residential & Commercial	**Million Btu/barrel**	5.318	5.323	5.260	5.212
Industrial	**Million Btu/barrel**	5.253	5.247	5.233	5.272
Transportation	**Million Btu/barrel**	5.430	5.434	5.440	5.445
Electric Utilities	**Million Btu/barrel**	6.249	6.250	6.241	6.247
LPG average	**Million Btu/barrel**	3.659	3.652	3.683	3.625
Natural Gas Plant Liquids	**Million Btu/barrel**	3.804	3.800	3.826	3.822
Natural Gas					
Production, dry	**Btu/cubic foot**	1,031	1,029	1,031	1,031
Production, wet	**Btu/cubic foot**	1,112	1,109	1,107	1,106
Consumption	**Btu/cubic foot**	1,031	1,029	1,031	1,031
Fossil Fuel Steam-Electric Power Plant Generation(b)	**Btu/kilowatthour**	10,253	10,235	10,331	10,335
Nuclear Power Plant Gen.	**Btu/kilowatthour**	10,776	10,743	10,724	10,680
Geothermal Power Plant Gen.	**Btu/kilowatthour**	21.263	21,096	21,096	21,096
Electricity Consumption	**Btu/kilowatthour**	3,412	3,412	3,412	3,412

(a) Includes lease condensate.

(b) This is used as the thermal conversion factor for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

(c) Preliminary data.

SOURCE: U.S. Energy Information Administration, Monthly Energy Review.

Section XV
Table 5

United States Petroleum Industry Injury Frequency Rates by Industry Sector(a)

Industry Sector	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Exploration & Production	3.07	2.60	2.58	2.38	2.06	2.36	2.64	2.73	2.60	2.54	2.4
Gas Processing	3.67	4.33	3.82	3.81	3.77	3.95	3.23	3.50	3.30	3.69	3.15
Drilling	24.96	23.34	18.91	14.23	14.91	11.13	18.23	8.02	9.87	7.79	5.65
Petrochemical Mftg.	6.11	5.07	3.54	3.41	2.60	2.50	3.49	5.56	3.13	4.45	3.05
Refining	5.87	5.21	4.88	4.31	3.52	3.49	6.07	7.10	6.52	6.10	5.95
Marketing-Wholesale	4.38	4.19	3.39	3.60	3.21	3.80	3.93	3.57	4.14	3.62	3.94
Marketing-Retail	4.88	4.49	4.25	3.72	4.42	3.96	5.10	4.47	5.50	5.48	5.29
Pipeline-Liquid	4.21	4.11	3.95	3.95	3.72	3.73	3.35	4.98	3.90	3.77	3.24
Pipeline-Gas	6.10	4.99	4.83	5.43	4.39	3.58	4.16	4.80	4.33	5.11	4.3
Marine	3.08	2.00	2.42	2.85	2.70	2.51	2.21	2.70	2.25	2.34	3.42
Research & Development	2.08	2.19	2.07	2.24	1.72	1.53	1.95	2.47	2.32	1.73	2.15
Gen. Services, Engineering, and Miscellaneous	1.31	1.35	1.30	1.29	1.08	1.14	1.16	1.46	1.19	1.22	1.32
Combined Functions	3.76	2.59	4.79	3.50	3.25	NA	NA	NA	NA	NA	NA
TOTAL	4.22	3.77	3.48	3.20	2.85	2.77	3.46	3.89	3.83	3.59	3.52

(a) Covers operations subject to OSHA recordkeeping requirements only. Frequency rates represent total recordable cases per 100 fulltime workers.

SOURCE: American Petroleum Institute, Summary of Occupational Injuries and Illnesses in the Petroleum Industry.

Section XV
Table 6

United States Acreage Under Lease for Oil and Gas Production
(As of January 1)

	1981		1982		1983	
State	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas
Alabama	8,895,085	183,035	9,183,076	183,076	9,297,939	227,040
Alaska	3,527,540	442,540	4,131,340	451,340	5,464,155	459,060
Arizona	12,005,400	5,400	20,146,200	6,200	22,018,200	7,200
Arkansas	9,132,700	1,025,200	10,140,960	1,140,960	12,086,910	1,168,700
California	4,106,000	516,000	5,055,461	455,461	6,018,559	608,646
Colorado	31,809,000	1,103,000	30,639,000	1,209,000	31,577,000	1,334,000
Florida	3,005,200	34,200	3,715,000	35,000	3,755,000	35,000
Georgia	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Illinois	4,413,000	663,000	4,673,000	673,000	4,468,000	668,000
Indiana	8,778,810	7,828,810	8,832,960	7,832,960	8,848,070	7,838,070
Iowa	--	--	--	--	--	--
Kansas	13,222,400	3,804,000	13,794,900	3,882,000	17,000,000	7,600,000
Kentucky	4,950,000	950,000	5,225,000	975,000	5,500,000	1,000,000
Louisiana	15,962,000	4,595,000	16,100,000	7,000,000	13,550,000	6,990,000
Maryland	449,200	14,200	494,200	14,200	494,200	14,200
Michigan	12,550,000	550,000	14,074,000	574,000	14,324,000	574,000
Mississippi	7,951,400	603,400	11,926,500	626,500	11,944,100	628,500
Missouri	504,430	4,030	612,298	12,298	632,900	12,900
Montana	36,060,000	850,000	38,170,000	940,000	42,023,000	1,003,000
Nebraska	12,584,000	280,000	12,570,000	320,000	14,416,000	331,000
Nevada	17,855,800	3,800	23,554,000	4,000	31,646,600	4,600
New Mexico	30,130,000	3,330,000	30,020,000	3,720,000	31,413,000	3,655,000
New York	5,500,000	1,000,000	5,710,000	1,110,000	5,850,000	1,250,000
North Carolin	--	--	--	--	--	--
North Dakota	22,299,000	473,000	22,920,000	530,000	22,256,000	591,000
Ohio	16,527,377	2,861,927	16,520,326	2,979,826	16,448,304	3,076,994
Oklahoma	16,886,900	3,769,000	17,402,000	4,145,900	17,691,600	4,491,600
Oregon	4,001,120	1,120	4,001,000	1,000	9,001,500	1,500
Pennsylvania	17,010,160	2,625,160	17,137,160	2,731,500	17,540,160	2,851,770
South Dakota	7,457,500	19,500	8,120,000	21,000	7,027,000	33,000
Tennessee	6,522,160	22,160	8,327,257	27,257	8,528,500	28,500
Texas	59,974,600	10,900,000	64,350,000	11,750,000	64,723,000	12,475,000
Utah	29,519,000	345,000	30,900,000	364,000	32,014,000	400,000
Virginia	3,053,150	81,936	3,456,940	90,555	3,158,906	112,838
West Virginia	13,934,000	7,160,000	14,134,000	7,325,000	13,447,000	7,528,000
Wyoming	38,765,000	2,200,000	36,850,000	2,300,000	34,227,000	2,445,000
TOTAL U.S.(a)	479,531,532	58,144,418	522,518,628	73,060,033	538,390,603	69,444,118

See notes and sources at end of table

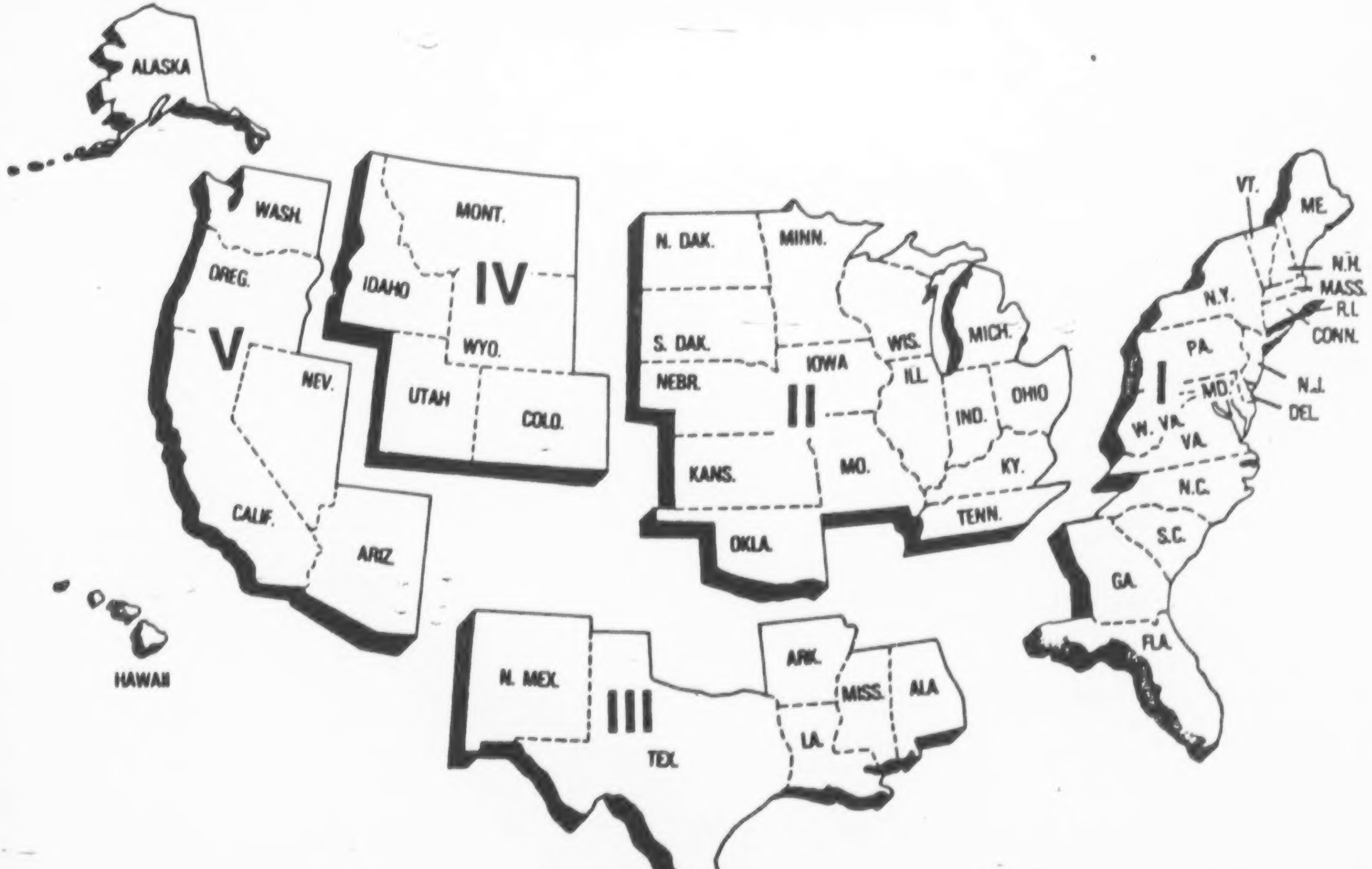
United States Acreage Under Lease for Oil and Gas Production
(As of January 1)

	1984		1985		1986	
State	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas	Total Estimated Acreage Under Lease	Acreage Proved Productive of Oil and/or Gas
Alabama	9,416,034	276,428	9,182,000	316,000	8,010,000	371,000
Alaska	10,574,539	521,983	11,240,000	665,000	12,582,000	682,000
Arizona	23,730,680	6,080	23,731,000	6,000	23,747,000	6,000
Arkansas	13,300,000	1,200,000	12,998,000	1,215,000	10,694,000	1,205,000
California	8,565,791	433,791	9,250,000	500,000	5,810,000	428,000
Colorado	35,531,520	1,447,520	35,531,000	1,509,000	35,622,000	1,556,000
Florida	5,130,080	36,280	2,637,000	37,000	2,639,000	37,000
Georgia	1,894,127	0	2,800,000	0	2,291,000	0
Idaho	870,709	0	913,000	0	600,000	0
Illinois	4,629,000	679,000	4,735,000	706,000	5,900,000	880,000
Indiana	8,963,125	7,925,600	8,963,000	7,926,000	8,000,000	6,295,000
Iowa	0	0	5,000,000	0	5,000,000	0
Kansas	18,672,133	8,517,133	19,750,000	10,595,000	16,380,000	8,795,000
Kentucky	5,525,000	1,025,000	6,350,000	1,210,000	5,458,000	1,089,000
Louisiana	13,672,466	6,997,000	14,500,000	7,842,000	14,080,000	7,609,000
Maryland	524,200	14,200	314,000	17,000	316,000	16,000
Michigan	14,576,720	608,720	14,756,000	628,000	14,931,000	653,000
Mississippi	11,478,900	629,140	10,402,000	700,000	9,500,000	710,000
Missouri	712,900	12,900	713,000	13,000	712,000	12,000
Montana	44,050,200	1,054,400	44,050,000	1,085,000	44,111,000	1,105,000
Nebraska	13,411,080	326,080	13,411,000	334,000	13,508,000	340,000
Nevada	29,852,800	4,800	29,853,000	5,000	28,876,000	5,000
New Mexico	42,524,880	3,725,280	42,621,000	3,822,000	42,688,000	3,878,000
New York	5,900,000	2,000,000	5,600,000	2,000,000	5,610,000	2,010,000
North Carolin	200,000	0	457,000	0	500,000	0
North Dakota	23,299,820	617,120	23,300,000	643,000	23,324,000	658,000
Ohio	16,443,251	3,216,051	15,209,000	3,329,000	14,886,000	3,420,000
Oklahoma	18,990,000	4,025,000	19,200,000	7,211,000	20,435,000	7,675,000
Oregon	7,001,600	1,600	5,025,000	25,000	4,460,000	60,000
Pennsylvania	17,672,160	2,940,610	17,997,000	3,047,000	18,042,000	3,200,000
South Dakota	10,877,340	1,032,640	8,120,000	36,000	8,123,000	37,000
Tennessee	9,830,000	50,715	3,827,000	12,000	3,115,000	18,000
Texas	70,300,000	14,938,000	68,374,000	16,500,000	60,670,000	14,640,000
Utah	38,229,686	487,686	38,230,000	504,000	38,258,000	518,000
Virginia	3,376,396	122,700	3,236,000	147,000	2,586,000	316,000
West Virginia	13,757,000	7,693,000	13,408,000	7,807,000	12,673,000	7,807,000
Wyoming	38,999,100	2,598,400	38,999,000	2,659,000	39,064,000	2,697,000
TOTAL U.S.(a)	592,483,237	69,018,667	587,646,000	83,051,000	566,930,000	78,728

(a) Totals may not add due to the addition of miscellaneous acreage for which detailed information is not available.

SOURCE: IPAA--The Oil Producing Industry in Your State, Annuals.

Petroleum Administration for Defense (PAD) Districts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Heating Equipment and Fuels for Occupied Housing Units (Thousands)

	1950	1960	1970	1980	1983	1985	1987	1989
Total occupied units	42,826	53,024	63,445	80,390	84,638	88,425	90,888	93,883
Heating Equipment								
Warm air furnace	11,508 (a)	17,378 (a)	27,515 (a)	39,279	44,320	47,256	49,854	50,271
Heat Pumps	(a)	(a)	(a)	2,835	2,171	3,031	3,688	6,875
Steam or Hot Water	10,071	11,990	13,211	13,859	13,772	13,929	13,855	13,566
Floor, Wall or Pipeless furnace	(a)	6,088	5,552	4,693	5,977	5,496	5,450	4,806
Built-in electric units	--	664	3,236	6,370	6,207	5,733	6,092	6,658
Room heaters with flue	15,399 (b)	11,183 (b)	7,209	6,098	3,438	2,938	2,629	2,879
Room Heaters without flue	5,268	5,218	3,558	2,736	2,926	2,639	2,346	2,061
Fireplaces, Stoves or Heaters (c)	(b)	(b)	2,766	3,977	5,152	6,140	5,583	5,803
None	581	503	398	541	677	529	659	663
House heating fuel								
Utility gas	11,387	22,851	35,014	42,658	46,700	45,328	45,959	47,395
Fuel oil, Kerosene, etc.	9,686	17,158	16,473	14,655	13,031	13,505	13,453	13,542
Electricity	283	933	4,876	14,768	15,684	18,361	20,608	23,060
Bottled, tank or LPgas	787	2,686	3,807	4,535	3,869	3,584	3,659	3,664
Wood or other fuel	4,855	2,460	1,060	2,729	4,245	6,622	5,782	5,024
Coal or Coke	14,828	6,456	1,821	504	432	447	407	335
None	999	478	395	541	677	529	659	863
Cooking Fuel								
Electricity	6,403	16,351	25,768	41,906	NA	49,057	51,629	54,090
Utility gas	22,084	27,296	31,244	32,375	NA	33,794	33,670	34,487
Bottled, tank or LPgas	3,417	6,491	5,314	5,569	NA	4,815	4,870	4,406
Other fuel	10,796	2,603	908	398	NA	305	330	346
None	124	280	213	142	NA	453	389	554

(a) "Floor, well or pipeless furnace" and "heat pumps" included in "Warm air furnace".
(b) "Fireplace, stoves or portable heaters" included in "Room heaters with flue".
(c) Portable Heaters.

SOURCE: U.S. Bureau of the Census, Census of Housing, 1960 and 1980
Current Housing Reports, Annual Housing Survey 1983, American Housing Survey, 1985-1989.

SELECTED DEFINITIONS

BARREL--unit of volumetric measure. One barrel equals 42 U.S. gallons.

CRUDE OIL--technically defined as a mixture of hydrocarbons that exists in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities.

CRUDE OIL, PRODUCTION--the volume of liquids statistically defined as crude oil, which is produced from oil reservoirs during given periods of time. The amount of such production for a given period is generally established by measurement of volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

CRUDE OIL, PROVED RESERVES--Proved reserves of crude oil as of December 31 of any given year are the estimated quantities of all liquids statistically defined as crude oil, which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by either actual production or conclusive formation tests. The area of an oil reservoir considered proved includes: (1) that portion delineated by drilling and defined by gas-oil or oil-water contacts, if any; and (2) the immediately adjoining portions not yet drilled but which can be reasonably judged as economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurence of hydrocarbons controls the lower proved limit of the reservoir.

Reserves of crude oil which can be produced economically through application of improved recovery techniques (such as fluid injection) are included in the "proved" classification.

Estimates of proved crude oil reserves do not include the following: (1) oil that may become available from known reservoirs but is reported separately as "indicated additional reserves"; (2) natural gas liquids (including lease condensate); (3) oil the recovery of which is subject to reasonable doubt because of uncertainty as to geology, reservoir characteristics, or economic factors; (4) oil that may occur in untested prospects; and (5) oil that may be recovered from oil shales, coal, gilsonite, and other such sources.

DEVELOPMENT WELL--In general, a well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

DISTILLATE FUEL OIL--A general classification for one or more distilled petroleum fractions used for domestic heating and industrial burners, or for power generation in compression ignition engines. These fractions are No. 1 Fuel Oil, No. 2 Fuel Oil, Diesel Fuel and No. 4 Fuel Oil.

DRY HOLE--An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

EXPLORATORY WELL--A well drilled (1) to find and produce oil or gas in an unproved area; (2) to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir; or (3) to extend the limits of a known oil or gas reservoir.

GAS WELL--A well completed for production of natural gas from one or more gas zones or reservoirs. Such wells contain no completions for the production of crude oil.

KEROSINE--A refined petroleum distillate conforming to the requirements of ASTM D 3699. Two classifications are No. 1-K and No. 2-K.

KEROSINE-TYPE JET FUEL (Jet A)-A quality kerosine product covered by ASTM Spec D 1655. Used primarily as fuel for commercial turbojet and turboprop aircraft engines. A relatively low freezing point distillate of the kerosine type.

LIQUEFIED REFINERY GAS (LRG)--Includes liquefied refinery gases that were fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state and represent final products. Excludes still gases used for chemical or rubber manufacture which are reported as petrochemical feedstocks and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquid refinery gases are reported in the following categories for use as petrochemical feedstock, for other uses or both; ethane and or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane.

LUBRICATING OILS--Includes all grades of paraffinic and napthenic lubricating oil stocks, from light distillate spindle oils to residual cylinder stocks. Oils used for grease-making are also classified as lubricating oils.

MOTOR GASOLINE--A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, obtained by blending appropriate refinery streams to form a fuel suitable for use in spark ignition engines. Includes all refinery products within the gasoline range (ASTM spec.D439) that are to be marketed as motor gasoline without further processing i.e. any refinery operation except mechanical blending. Includes both leaded and unleaded grades. Also includes finished components in the gasoline range which will be used for blending or compounding finished gasoline

NAPHTHA-TYPE JET FUEL--(Jet B) A fuel in the heavy naphtha boiling range covered by ASTM Spec. D 1655 and meeting military Spec. MIL-T-5624 (JP-4). Used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram jet and petroleum rocket fuels.

SELECTED DEFINITIONS

NATURAL GAS--A mixture of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with oil in natural underground reservoirs at reservoir conditions. Natural gas may be subclassified as follows: Associated Gas, Dissolved Gas, and Non-associated Gas.

NATURAL GAS, PRODUCTION--Statistics pertaining to natural gas production represent volumes of gas produced from natural oil and gas reservoirs during given periods of time with adjustments (where applicable) to reflect (1) the volume of gas returned to natural reservoirs, and (2) the reduction of volume resulting from the removal of natural gas liquids and nonhydrocarbon gases. The volume of natural gas withdrawn from underground storage facilities is not included in natural gas production statistics.

NATURAL GAS, PROVED RESERVES--Proved reserves of natural gas as of December 31 of any given year are the estimated quantities of natural gas which geological and engineering data demonstrate with reasonable certainty to be recoverable in the future from known natural oil and gas reservoirs under existing economic and operating conditions.

Reservoirs are considered proved if economic producibility is supported by either actual production or conclusive formation tests. The area of a reservoir considered proved includes: (1) that portion delineated by drilling and defined by gas-oil, gas-water or oil-water contacts; and (2) the adjoining portions not yet drilled but which can be reasonably judged economically productive on the basis of available geological and engineering data. In the absence of information on fluid contacts, the lowest known structural occurrence of hydrocarbons controls the lower proved limit of the reservoir.

Reserve estimates are prepared for total recoverable natural gas, nonassociated gas, and associated-dissolved gas. Estimates do not include (1) gaseous equivalents of natural gas liquids expected to be recovered from reservoir natural gas as it is produced; (2) natural gas being held in underground storage; or (3) nonhydrocarbon gases.

NATURAL GAS LIQUIDS--Those portions of reservoir gas which are liquefied at the surface in lease separators, field facilities, or gas processing plants. Natural gas liquids include but are not limited to: ethane, propane, butanes, pentanes, natural gasoline, and condensate.

NEW-FIELD WILDCAT--A well located on a structural feature or other type of trap which has not previously produced oil or gas.

OFFSHORE--Term defined as that geographic area which lies seaward of the coastline. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking seaward limit of inland water.

OFFSHORE WELL--A well which is bottomed at, or produces from, a point which lies seaward of the coastline. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland water. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification is used.

OIL WELL--A well completed for the production of crude oil from at least one oil zone or reservoir.

PAD DISTRICTS (Petroleum Administration for Defense Districts)--a geographic aggregation of the 50 states and the District of Columbia into five districts, originally designed by the Petroleum Administration for Defense in 1950 for purposes of administration. These are an outgrowth of the World War II Petroleum Administration for War Districts.

PETROLEUM PRODUCTS--A generic term used to describe products obtained from distilling and processing crude oil, unifinished oils natural gas liquids, blend stocks and other miscellaneous hydrocarbon compounds.

PETROLEUM REFINERY--A complex installation of equipment designed to manufacture finished petroleum products from crude oil and other liquid hydrocarbons.

PRIMARY STOCKS OF PETROLEUM--Represents stocks held at refineries, natural gas processing plants, bulk terminals, pipelines and leases. Excludes stocks held in secondary and tertiary (consumer) storage.

PROCESSING GAIN--The volumetric amount by which total refinery output is greater than input. This difference is due to the processing of crude oil into products which in total, have a lower specific gravity than the crude oil processed. Therefore, in terms of volume (barrels), the total output of products is greater than input.

PROCESSING LOSS--The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total have a higher specific gravity than the crude oil processed and thus an output in barrels, smaller than the input.

PRODUCT SUPPLIED FOR DOMESTIC USE--Approximately represents consumption of petroleum products in that it measures the disappearance of these products from primary sources, i.e. refineries, natural gas processing plants, blending operations, pipelines, and bulk terminals. It includes losses and fuels used in the industry.

RESIDUAL FUEL OIL--General classification for fuels obtained as liquid still bottoms from the distillation of crude, used alone or in blends with heavy liquids from other refinery process operations. Includes Grades No.5 (light and heavy), No.6 (including heavy grade, so called Bunker C oil), and Navy Special fuel oil.

SELECTED DEFINITIONS

SERVICE WELL--A well drilled or completed for the purpose of supporting production in an existing field.

STRATEGIC PETROLEUM RESERVE (SPR)--Petroleum inventories (currently only crude oil) held in Government-owned underground storage for use during periods of supply interruptions.

STRATIGRAPHIC TEST--A drilling effort, geologically directed, to obtain information pertaining to a specific geological condition that might lead toward the discovery of an accumulation of hydrocarbons. Such wells are customarily drilled without the intention of being completed for hydrocarbon production. This classification also includes tests identified as core tests and all types of expendable holes related to hydrocarbon exploration.

UNFINISHED OILS--Includes all oils requiring further processing, i.e., any refinery operation except mechanical blending.

WELL--A hole drilled in the earth for the purpose of (1) finding or producing crude oil or natural gas; or (2) providing services related to the production of crude oil or natural gas.

CURRENT SOURCE LISTING FOR THE BASIC PETROLEUM DATA BOOK

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